

SOAP AND CHEMICAL SPECIALTIES

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1960 BLUE BOOK and Catalog

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Annual Buyers' Guide for

MANUFACTURERS, CONVERTERS AND REPACKERS
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SOAP & CHEMICAL SPECIALTIES

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CONVERTERS, REPACKERS
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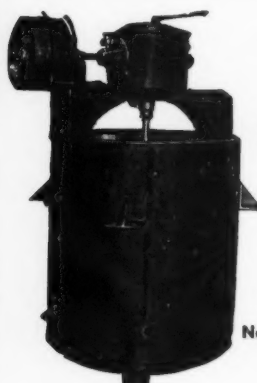
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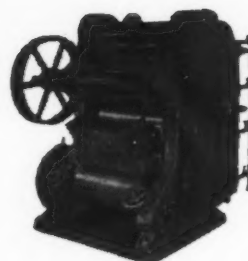


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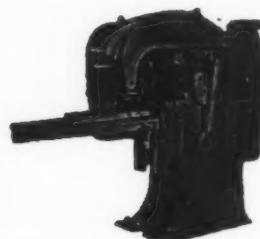


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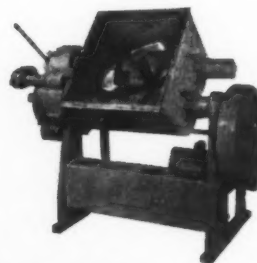
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Buyers' Guide Section

LISTED alphabetically in the following pages are the leading sources of supply for manufacturers, converters and repackers of over 1,000 raw materials, and equipment, containers and accessories for aerosols, antiseptics, automotive chemicals, bleaches, cleaners, cosmetics, dentifrices, deodorants, detergents, disinfectants, floor waxes, germicides, insecticides, mildew and moth compounds, polishes, protective floor finishes, repellents, rodenticides, sanitizers, shaving products, skin protectants, soaps, sprays, sweeping compounds, textile products, washing compounds, weed killers and many other chemical specialties.

Listings have been revised and new ones added to reflect latest practices and manufacturing methods in the soap, detergent and chemical specialties fields. Every attempt has been made to keep this *Buyer's Guide* accurate and up-to-date.

If you have a product or offer a service which, should be included in this *Buyers' Guide*, write us for a questionnaire so that your firm may be included in next year's edition. However, bear in mind that the **BLUE BOOK** is not a general chemical directory, but is published specifically for manufacturers, converters and repackers of soaps, detergents, toilet goods, and chemical specialties. **BLUE BOOK** listings are solely for firms selling *to the trade*.

If you are looking for a manufacturer or supplier of a product or service not listed, drop a line to the **SOAP BLUE BOOK**, and the editors will try to locate a source of supply. However, first check thoroughly the listings and advertisements.

When writing advertisers or other suppliers listed, identify the **SOAP BLUE BOOK** as your source of information. This will aid in giving you prompt service.

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*Celite is Johns-Manville's registered trade mark for its diatomaceous silica products.
†Once! is a registered trade mark of the American Silicone Company, Englewood, Colorado.

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California Industrial Minerals Co., Friant, Calif.
Carolina Pyrophyllite Co., 10 E. 40th St., N. Y. 16
Chas. B. Chrystal Co., 53 Park Pl., N. Y.
Dicalite Div., 612 S. Flower St., Los Angeles, Cal.
J. M. Huber Corp., 630 3 Ave., N. Y.
Johns-Manville Prods. Corp., 22 E. 40th St., N. Y.
LaRue-Axtell Pumice Co., Callaway, Nebr.
Minerals & Chems. Corp. of America, Menlo Park, N. J.
Pacific Coast Pumice Co., Bishop, Calif.
Jas. H. Rhodes & Co., 157 W. Hubbard St., Chicago
Southeastern Clay Co., Aiken, S. C.
Tamms Industries, Inc., 228 N. La Salle St., Chicago
Universal Marble Products, Thornwood, N. Y.
United Clay Mines Corp., 101 Oakland St., Trenton, N. J.
R. T. Vanderbilt Co., 230 Park Ave., N. Y.
Charles A. Wagner Co., 4455 N. 6th St., Phila.
Westvaco Mineral Prods. Div., 161 E. 42 St., N. Y.
Whittaker Clark & Daniels, 100 Church St., N. Y.

ABSORBENTS (See Grease Absorbents)

ACCUMULATORS (Bottles, Cans)

FMC Packaging Machy Div., 4972 Summerdale Ave., Phila., Pa.
Filpaco Industries, 2464 S. Michigan Ave., Chicago 16
Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh 4
Island Equip. Corp., 1090 E. 31st St., Hialeah, Fla.
Karl Kiefer Machine Co., 919 Martin St., Cincinnati
U. S. Bottlers Machy. Co., 4019 N. Rockwell St., Chicago
MRM Co., 191 Berry St., Brooklyn

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Celanese Corp. of America, 180 Madison Ave., N. Y.
Chemo Puro Mfg. Corp., 150 Doremus Ave., Newark, N. J.
E. I. du Pont de Nemours & Co., Wilmington

Eastman Chem. Prods., Inc., Kingsport, Tenn.
General Chem. Div., 40 Rector St., N. Y.
Hercules Powder Co., Wilmington, Dela.
A. R. Maas Chem. Co., 4570 Ardine St., Southgate, Calif.
Monsanto Chemical Co., St. Louis 24, Mo.
Publicker Industries, 1429 Walnut St., Phila 2
Tenn. Prod. & Chem. Corp., Nashville, Tenn.
Union Carbide Chemicals Co., 30 E. 42nd St., N. Y. 17

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Heyden Newport Chem. Corp., 342 Madison Ave., N. Y. 17
Mallinckrodt Chem. Co., St. Louis
Merck & Co., Rahway, N. J.
Monsanto Chemical Co., St. Louis 24, Mo.
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn.
Rayette, Inc., 261 E. 15th St., St. Paul, Minn.
Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17

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American Cyanamid Co., 30 Rockefeller Plaza, New York
Antara Chems. Div., 435 Hudson St., N. Y. 14
J. T. Baker Chemical Co., Phillipsburg, N. J.
Blockson Chemical Co., Joliet, Ill.
Diamond Alkali Co., Union Commerce Bldg., Cleveland
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Eastman Chem. Prods., Kingsport, Tenn.
General Chemical Div., 40 Rector St., N. Y.
Harshaw Chem. Co., 1945 E. 97th St., Cleveland
Heyden Newport Chemical Corp., 342 Madison Ave., N. Y. 17
Hooker Chemical Corp., Niagara Falls, N. Y.
Kay-Fries Chems. Inc., 180 Madison Ave., N. Y. 16
Koppers Co., Koppers Bldg., Pittsburgh, Pa.
Mallinckrodt Chemical Wks., St. Louis 7
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Olin Mathieson Chem. Corp., Baltimore 3



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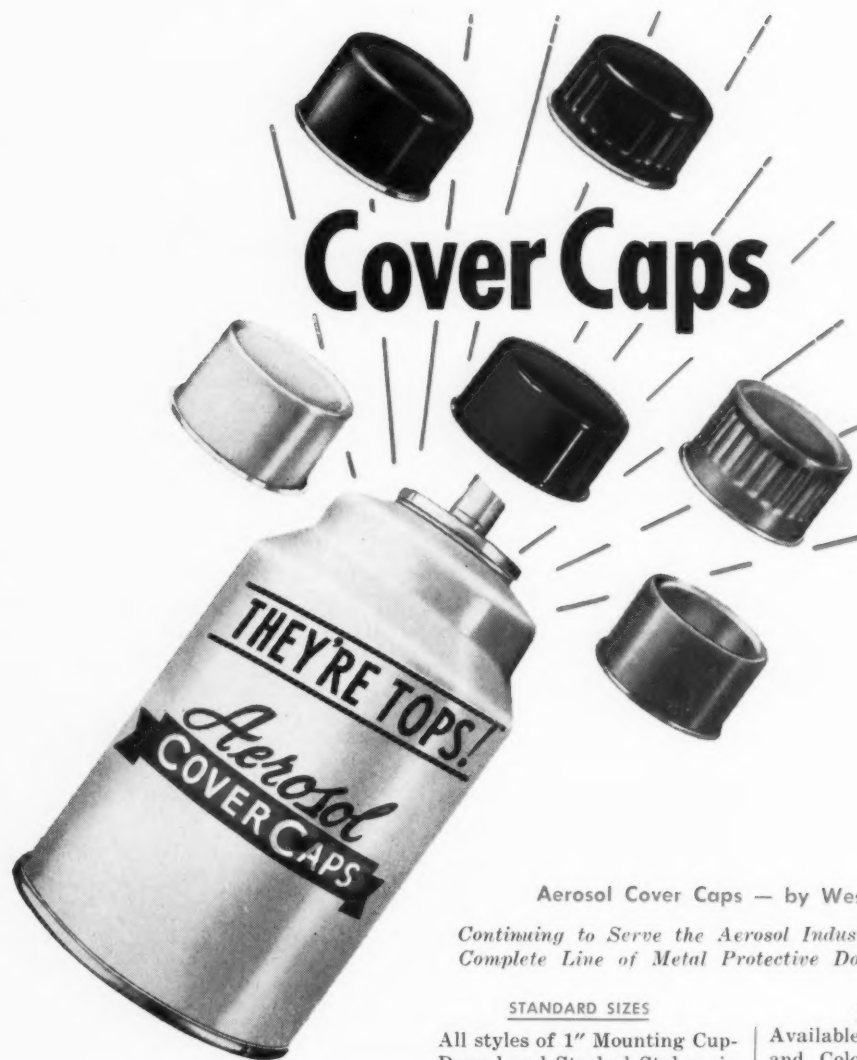
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Rohm & Haas Co., 222 W. Washington Sq., Phila.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Tennessee Corp., 619 Grand Blvd., Atlanta, Ga.
Jos. Turner & Co., Ridgefield, N. J.
Union Carbide Chemicals Co., 30 E. 42nd St., N. Y. 17
Victor Chemical Works, 155 N. Wacker Dr., Chicago 6
Virginia-Carolina Chem. Corp., Richmond, Va.
Wyandotte Chemicals Corp., Wyandotte, Mich.

ACTIVATED CARBONS

Atlas Powder Co., Wilmington 99, Dela.
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Dicalite Div., 612 S. Flower St., Los Angeles, Calif.
Filtrol Corp., 3250 E. Washington Blvd., Los Angeles
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y. 20
Johns-Manville Prods. Corp., 22 E. 40th St., N. Y.
J. M. Huber Corp., 630 3rd Ave., New York
S. B. Penick & Co., 100 Church St., N. Y. 8
Tammis Industries, Inc., 228 N. LaSalle St., Chicago
Whittaker, Clark & Daniels, 100 Church St., N. Y.
Witco Chemical Co., 122 E. 42nd St., N. Y.
Wyandotte Chemicals Corp., Wyandotte, Mich.

ADHESIVES (Glues, Pastes, etc.)

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Armour & Co., 1355 W. 31st St., Chicago
Bingham Bros. Co., 406 Pearl St., N. Y. C.
Ciba Co., Fair Lawn, N. J.
Darling & Co., 4201 Ashland Ave., Chicago 9
Dow Corning Corp., Midland, Mich.
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Eastman Chem. Prods., Kingsport, Tenn.
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
General Aniline & Film Corp., 435 Hudson St., N. Y. 14
General Chemical Div., 40 Rector St., N. Y.
Monsanto Chem. Co., St. Louis, Mo.
Morningstar-Paisley, Inc., 630 W. 51st St., N. Y.
National Starch & Chem. Corp., 750 Third Ave., N. Y. 17
Philadelphia Quartz Co., Public Ledger Bldg., Phila. 6
Reichhold Chemicals, Inc., White Plains, N. Y.
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Stauffer Chem. Co., 380 Madison Ave., N. Y.
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T. F. Washburn Co., 2244 Elston Ave., Chicago 14

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Continental Can Co., 100 E. 42nd St., N. Y. 17
Crown Cork & Seal Co., 9300 Ashton Rd., Phila. 34
Eastern Cap & Closure Co., 725 N. Haven Ave., Baltimore
Walter Frank Organization, 4100 Warren Ave., Hillside, Ill.
Gibson Associates, 390 North Ave., Cranford, N. J.
Gilbert Plastics, Inc., Boright Ave., Kenilworth, N. J.
Ludwig Closure Co., 185 Oakland St., Bklyn. 22
Owens-Illinois Glass Co., Toledo, O.
Penn Cork & Closures, 1155 Manhattan Ave., Brooklyn
Scovill Mfg. Co., Waterbury, Conn.
Sterling Seal Co., 316 W. 16th St., Erie, Pa.
West Penn Mfg. & Supply Co., Brackenridge, Pa.

AEROSOL CONSULTANTS

Robert A. Foresman, Jr., 1690 Margaret St., Phila.
Lodes Aerosol Consultants, Inc., 730 5th Ave., N. Y.
Reed Research Corp., Mill St., Huntington, Shelton, Conn.
Foster D. Snell, Inc., 29 W. 15 St., N. Y. 11
Wisconsin Alumni Research Foundation, Madison, Wisc.

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Aluminum International, 1855 Blake St., Denver

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Bradley-Sun Div., Hillside, N. J.
American Can Co., 100 Park Ave., N. Y. C.
Colt's Mfg. Co., 17 Van Dyke Ave., Hartford, Conn.
Continental Can Co., 100 E. 42nd St., N. Y. 17
Crown Cork & Seal Co., 9300 Ashton Rd., Philadelphia 34
Emson Research, Inc., Burr Court, Bridgeport, Conn.
National Plastic Prods. Co., Odenton, Md.
Owens-Illinois Glass Co., Toledo, 1, O.
Peerless Tube Co., 58 Locust St., Bloomfield, N. J.
Precision Valve Co., 700 Nepperhan Ave., Yonkers, N. Y.
Richford Corp., 3618 Oceanside Rd., Oceanside, N. Y.
Scovill Mfg. Co., Waterbury, Conn.
Tube Manifold Corp., 429 Bryant, N. Tonawanda, N. Y.
Wheaton Glass Co., Millville, N. J.
White Metal Mfg. Co., 1012 Grand, Hoboken, N. J.
A. H. Wirz, Inc., 2316 W. Townsend St., Chester, Pa.

AEROSOL DEODORANTS (Room Deodorants)

Airkem, Inc., 241 E. 44th St., N. Y. 17
Aerosol Techniques, Inc., 1730 State St. Ext., Bridgeport, Conn.
Airosol Co., Neodesha, Kas.
A-M-R Chemical Co., 985 E. 35th St., Bklyn.
Armstrong Laboratories, 421 LaGrange St., West Roxbury, Mass.
B. T. Babbitt, Inc., 625 Madison Ave., N. Y. C.
Barnett Chemical Products Co., 326 Lafayette Bldg., Phila. 6, Pa.
G. Barr & Co., 3601 S. Racine Ave., Chicago
Capitol Packaging Co., 1501 N. 31 Ave., Melrose Park, Ill.
Chase Products Co., 20 St. and Gardner Rd., Broadview, Ill.
Chem. Service of Baltimore, Howard & West, Baltimore
Claire Mfg. Co., 1200 N. W. 23rd Ave., Ft. Lauderdale, Fla.
Colgate-Palmolive Co., 300 Park Ave., N. Y.
Continental Filling Corp., Danville, Ill.
Eveready Press, Prod. Co., 1122 Belt Line St., Cleveland 9
Fluid Chem. Co., 878 Mt. Prospect, Newark 4, N. J.
Fuld Bros., 702 S. Wolfe St., Baltimore 31
Gard Industries, Inc., 1739 Harding Rd., Northfield, Ill.
Hysan Products Co., 936 W. 38th Pl., Chicago 9
Old Empire, Inc., Mt. Pros. & Vernon, Newark, N. J.
Orb Industries, Wallingford Rd., Media, Pa.
Pace, Inc., Mac Arthur Rd., Wilmington, Dela.
Pan-Pak, Inc., High St., Attica, N. Y.
Par Industries, 2193 E. 14th St., Los Angeles 21
Peterson Filling & Packaging Co., Danville, Ill.
Powr-Pak—Conn. Chem. Inc., 145 Howard Ave., Bridgeport, Conn.
Puritan Dist. Co., 160 N. Washington St., Boston
Puro Co., 2801 Locust St., St. Louis 3
Regal Chem. Corp., 115 Dobbin St., Bklyn. 22
Gene Rose Co., 1637 S. Kilbourn, Chicago 23
Shield Chem. Co., 50 Brook Rd., Needham, Mass.
Stalford Pressure-Pak Corp., 319 W. Pratt, Baltimore
Sprayway, Inc., 7640 Vincennes, Chicago 20
Strouse, Inc., Cherry & Basin Sts., Norristown, Pa.
Sun-Lac, Inc., 274 Lafayette St., Newark, N. J.
Thomasson of Pa., Norristown, Pa.
Turgasept Co., 100 Varick St., N. Y. 13
James Varley & Sons, 1200 Switzer, St. Louis
Western Filling Corp., 6423 Bandini, Los Angeles
Whitmire Research Corp., 339 S. Vandeventer Ave., St. Louis, Mo.
Woodlets, Inc., 2048 Niagara St., Buffalo, N. Y.
Zenith Drug, Inc., 1 Vesey St., Newark 5, N. J.

AEROSOL DIP TUBES

Action Plastics, 50 California Ave., Paterson, N. J.
Anchor Plastics Co., 36-36 36th St., Long Island City 6
Hydrawlik Co., 131 E. 1st Ave., Roselle, N. J.

AEROSOL FILLING (for the Trade)

Aero-Chem. Fillers, Inc., 1981 State St., Ext., Bridgeport, Conn.
Aeropak, Inc., 3006 W. 47th St., Chicago
Aerosol Corp. of the South, Arlington, Tenn.
Aerosol Methods, Tylersport, Pa.
Aerosol Service AG, Weillstrasse 12, Basel, Switzerland
Aerosol-Service GmbH, Blumenstrasse 53, Hamburg, Germany
Aerosol Techniques, Inc., 1730 State St. Ext., Bridgeport, Conn.
Airosol Co., Inc., Neodesha, Kansas
A-M-R Chemical Co., 985 E. 35th St., Bklyn.
Armstrong Laboratories, 421 LaGrange St., W. Roxbury, Mass.
G. Barr & Co., 3601 S. Racine Ave., Chicago
Capitol Packaging Co., 1501 N. 31 Ave., Melrose Park, Ill.
Chase Products Co., 20th St. and Gardner Rd., Broadview, Ill.



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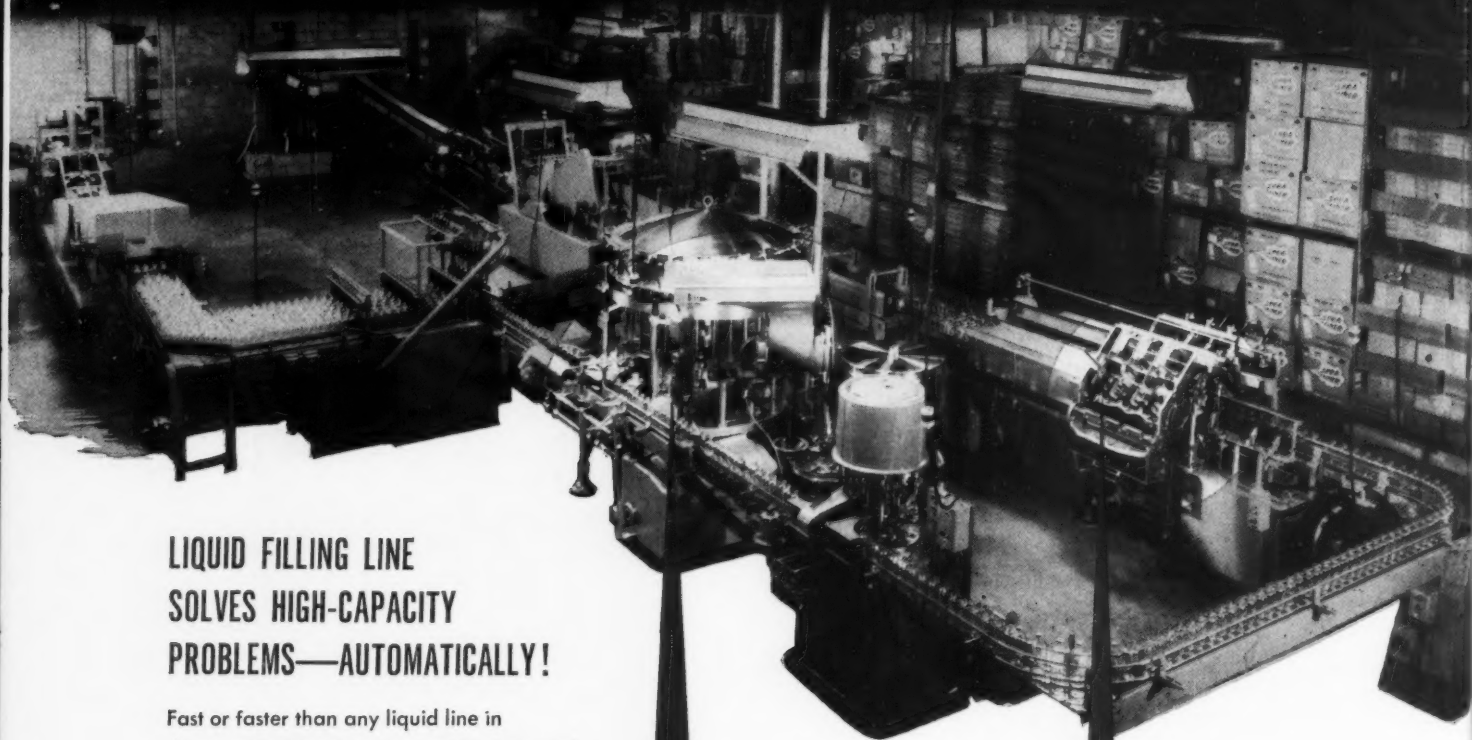
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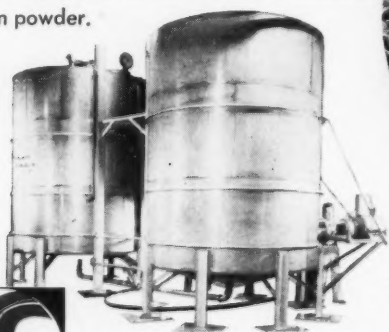
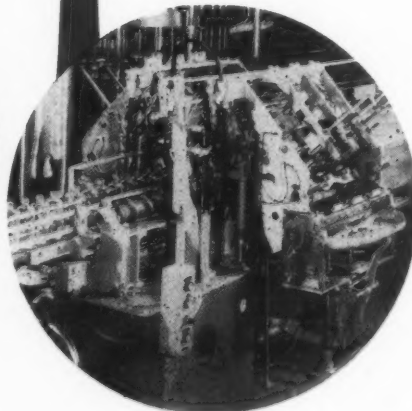
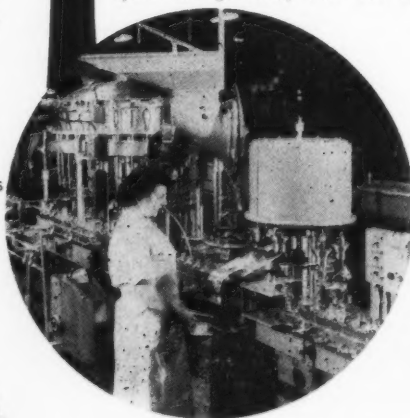


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Claire Mfg. Co., 1200 N. W. 23rd Ave., Ft. Lauderdale, Fla.
 A. Christiaens, S. A., 60 Rue de L'Etuve, Brussels, Belgium
 Continental Filling Corp., 123 N. Hazel St., Danville, Ill.
 Eska Chem. Corp., 352 Livonia Ave., Bklyn.
 Eveready Press. Prod., 1122 Belt Line St., Cleveland 9
 Fluid Chemical Co., 878 Mt. Prospect, Newark 4, N. J.
 Fuld Bros., 702 S. Wolfe St., Baltimore 31
Gard Industries, Inc., 1739 Harding Rd., Northfield, Ill.
 Hysan Products Co., 932 W. 38th Pl., Chicago 9, Illinois
 Lawson Chem. Prods. Co., Gardena, Calif.
 Lenk Co., Franklin, Ky.
 National Spray Can Filling Corp., 6202 Avenue U, Brooklyn
 Old Empire, Inc., Mt. Prospect & Verona, Newark, N. J.
Pace, Inc., MacArthur Rd., Wilmington, Del.
 Pactra Chemical Co., 1213 N. Highland, Los Angeles
 Pan-Pak, Inc., High St., Attica, N. Y.
 Par Industries, Inc., 2193 E. 14th St., Los Angeles 21
Peterson Filling & Packaging Co., Hegeler Lane, Danville, Ill.
 Powr-Pak—Conn. Chem. Inc., 145 Howard Ave., Bridgeport, Conn.
 Private Brands, Inc., 300 S. 3rd St., Kansas City, Kansas
 Puritan Dist. Co., 160 Washington St., N., Boston
 W. T. Rawleigh Co., Freeport, Ill.
 Regal Chem. Corp., 115 Dobbin St., B'klyn 22, N. Y.
 Ronor Corp., 1360 W. 9th St., Cleveland
 Gene Rose Co., 1637 S. Kilbourn Ave., Chicago 23
 Shield Chem. Co., 50 Brook Rd., Needham, Mass.
 Southeastern Packaging Co., P. O. Box 8057, St. Petersburg, Fla.
 Sprayon Products, Inc., 2075 East 65th St., Cleveland 3
Staifort Pressure-Pak Corp., 319 W. Pratt St., Baltimore
 Sprayway, Inc., 7638 Vincennes Ave., Chicago 20
 Strouse, Inc., Cherry & Basin Sts., Norristown, Pa.
 Super-Pack Corp., R. D. #2, Dover, Pa.
 Texas Aerosols, Inc., 201 Velasco St., Houston 3
 Thomasson of Pa., Norristown, Pa.
 Western Filling Corp., 6423 Bandini Blvd., Los Angeles
 Whitmire Research Corp., 339 S. Vandeventer Ave., St. Louis, Mo.

AEROSOL FILLING EQUIPMENT

Builders Sheet Metal Works, 108 Wooster St., N. Y. 12
 Arthur Colton Co., 3464 E. Lafayette, Detroit

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TO SOAP & CHEMICAL SPECIALTIES

MONTHLY ISSUES

begins

on PAGE 277

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Crompton & Knowles Packaging Corp., Berkshire St., Holyoke, Mass.
Elgin Mfg. Co., Elgin, Ill.
Horix Manufacturing Co., 2609 Chartiers Ave., Pittsburgh 4
JG Machine Wks., 452 W. 46th St., N. Y. C.
Kartridg Pak Co., 9151 W. Fullerton Ave., Franklin Park, Ill.
Karl Kiefer Machine Co., 923 Martin St., Cincinnati
M. R. M. Co., 191 Berry St., Bklyn. 11
John R. Nalbach Engrg. Co., 6139 W. Ogden Ave., Chicago
Oil Equipment Laboratories, 600 Pearl St., Elizabeth, N. J.
Robins Engineering Co., 208 Maple Ave., North Haven, Conn.
Terris Div. Consolidated Siphon Supply Co., 22 Wooster St., N. Y.
Scientific Filter Co., 59 Rose St., N. Y. 38
U. S. Bottlers Mch. Co., 4019 N. Rockwell St., Chgo.
Wallace Co., 41 California St., Bridgeport, Conn.
Weigh Right Auto. Scale Co., Mills Md., Joliet, Ill.

AEROSOL FORMULATIONS

Chemical Service Co. of Baltimore, Howard & West Sts., Baltimore
Chemo Puro Mfg. Corp., 60 E. 42 St., N. Y. C.
Diamond Alkali Co., Union Commerce Bldg., Cleveland
Dominion Products, Inc., 10-40 44th Drive, Long Island City 1, N. Y.
Fairfield Chem. Div., 441 Lexington Ave., N. Y. 17
Fuld Bros., 702 S. Wolfe St., Baltimore
Geigy Agricultural Chemicals, Ardsley, N. Y.
General Chem. Div., 40 Rector St., N. Y. 6
Hercules Powder Co., 961 Market St., Wilmington
Hewitt Soap Co., Dayton, O.
McLaughlin Gormley King Co., 1715 5th St., SE, Minneapolis
S. B. Penick & Co., 100 Church St., N. Y.
Olin Mathieson Chem. Corp., Baltimore 3
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1
Rohm & Haas Co., Washington Sq., Phila.
Union Carbide Chems. Co., 30 E. 42 St., N. Y.
Van Dyk & Co., Belleville 9, N. J.

AEROSOL HAIR LACQUERS

Aero-Chem. Fillers, Inc., 1981 State St. Ext., Bridgeport, Conn.
Aerosol Techniques, Inc., 1730 State St. Ext., Bridgeport, Conn.
A-R-M Chem. Co., 985 E. 35th St., Bklyn. 10
Armstrong Laboratories, 421 LaGrange St., West Roxbury, Mass.
G. Barr & Co., 3601 S. Racine Ave., Chicago
Capitol Packaging Co., 1501 N. 31 Ave., Melrose Park, Ill.
Continental Filling Corp., Danville, Ill.
Eveready Press. Prods., 1122 Belt Line St., Cleveland 9
Fluid Chem. Co., 878 Mt. Prospect, Newark 4, N. J.
Gard Industries, Inc., 1739 Harding Rd., Northfield, Ill.
Old Empire, Inc., Mt. Pros & Verona, Newark, N. J.
Pace, Inc., MacArthur Rd., Wilmington, Del.
Pan-Pak, Inc., High St., Attica, N. Y.
Par Industries, 2193 E. 14th St., Los Angeles 21
Peterson Filling & Packaging Co., Danville, Ill.
Powr-Pak—Conn. Chem. Inc., 145 Howard Ave., Bridgeport, Conn.
Puritan Dist. Co., 160 Washington St. N., Boston
Regal Chem. Corp., 115 Dobbin St., Bklyn. 22
Shield Chem. Co., 50 Brook Rd., Needham, Mass.
Stallfort Pressure-Pak Corp., 319 W. Pratt St., Baltimore
Sprayway, Inc., 7640 Vincennes, Chicago 20
Strouse, Inc., Cherry & Basi Sts., Norristown, Pa.
Sun-Lac, Inc., 274 Lafayette St., Newark, N. J.
Thomasson of Pa., Norristown, Pa.
Western Filling Corp., 6423 Bandini, Los Angeles 23
Zenith Drug, Inc., 1 Vesey St., Newark, N. J.

AEROSOL INSECTICIDES (Filled Containers)

Airkem, Inc., 241 E. 44th St., N. Y. 17
Aeropak, Inc., 3005 W. 47th St., Chicago
Aerosol Techniques, Inc., 1730 State St. Ext., Bridgeport, Conn.
Airosol Co., Neodesha, Kas.
A.M.R. Chem. Co., 985 E. 35th St., Bklyn.
Armstrong Laboratories, 421 LaGrange St., West Roxbury, Mass.
B. T. Babbitt, Inc., 625 Madison Ave., N. Y. C.
Baird & McGuire, Inc., Holbrook, Mass.
Barnett Chemical Products Co., 326 Lafayette Bldg., Phila. 6
G. Barr & Co., 3601 S. Racine Ave., Chicago
California Spray Chem. Corp., Richmond, Calif.
Capitol Packaging Co., 1501 N. 31 Ave., Melrose Park, Ill.
Chase Products Co., 1816 W. St. Chas. Rd., Maywood, Ill.

Chem. Service of Baltimore, Howard & West, Baltimore
 Colgate-Palmolive Co., 300 Park Ave., N. Y.
 Continental Filling Corp., 123 N. Hazel, Danville, Ill.
 Eveready Press. Prod. Co., 1122 Belt Line St., Cleveland 9, O.
 Fluid Chem. Co., 878 Mt. Prospect, Newark 4, N. J.
 Fuld Bros., 702 S. Wolfe St., Baltimore, Md.
 Frontier Chem. Prods., Inc., 129 E. Soper St., St. Louis
 Gard Industries, Inc., 1739 Harding Rd., Northfield, Ill.
 Glenn Chem. Co., 2735 N. Ashland Ave., Chicago
 Hysan Products Co., 936 W. 38th Pl., Chicago 9
 Lawson Chem. Prods. Co., Gardena, Calif.
 Orb Industries, Wallingford Rd., Media, Pa.
 Pace, Inc., MacArthur Rd., Wilmington, Del.
 Par Industries, 2193 E. 14th St., Los Angeles 21
 Peterson Filling & Packaging Co., Hegeler Lane, Danville, Ill.
 Powr-Pak-Conn. Chem., Inc., 145 Howard Ave., Bridgeport, Conn.
 Private Brands, Inc., 300 S. 3 St., Kansas City, Kan.
 Puritan Dist. Co., 160 Washington, N., Boston
 Puro Co., 2801 Locust St., St. Louis 3
 Regal Chem. Corp., 115 Dobbin St., Bklyn. 22
 Residex Corp., 1500 W. Elizabeth Ave., Linden, N. J.
 Shield Chem. Co., 50 Brook Rd., Needham, Mass.
 Staflort Pressure-Pak Corp., 319 W. Pratt St., Baltimore
 Sprayon Prods., Inc., 2075 E. 65 St., Cleveland 3
 Sprayway, Inc., 7640 Vincennes, Chicago 20
 Sun-Lac Inc., 274 Lafayette St., Newark, N. J.
 Thomasson of Pa., Norristown, Pa.
 Uncle Sam Chem. Co., 575 W. 131st St., N. Y. 27
 James Varley & Sons, 1200 Switzer, St. Louis
 Western Filling Corp., 6423 Bandini, Los Angeles 23
 Whitmire Research Corp., 339 S. Vandeventer Ave., St. Louis, Mo.
 Zenith Drug, Inc., 1 Vesey St., Newark, N. J.

AEROSOL PAINTS, LACQUERS, etc. (Filled Containers)

Aeropak, Inc., 3005 W. 47th St., Chicago
 Aerosol Techniques, Inc., 1730 State St. Ext., Bridgeport, Conn.
 Airocol Co., Neodesha, Kan.
 A-R-M Chem. Co., 985 E. 35 St., Bklyn. 10
 Armstrong Laboratories, 421 LaGrange St., West Roxbury, Mass.
 G. Barr & Co., 3601 S. Racine Ave., Chicago
 Capitol Packaging Co., 1501 N. 31 Ave., Melrose Park, Ill.
 Continental Filling Corp., 123 N. Hazel, Danville, Ill.
 Eska Chemical Corp., 352 Livonia Ave., Bklyn.
 Eveready Press. Prod. Co., 1122 Belt Line Ave., Newark, N. J.
 Federal Varnish Div., 2841 S. Ashland Ave., Chicago 8
 Fluid Chem. Co., 878 Mt. Prospect Ave., Newark, N. J.
 Gard Industries, Inc., 1739 Harding Rd., Northfield, Ill.
 Krylon, Inc., Norristown, Pa.
 Puritan Dist. Co., 160 N. Washington St., Boston
 Pace, Inc., MacArthur Rd., Wilmington, Del.
 Par Industries, 2193 E. 14th St., Los Angeles 21
 Shield Chem. Co., 50 Brook Rd., Needham, Mass.
 Staflort Pressure-Pak Corp., 319 W. Pratt St., Baltimore

AEROSOL PERFUMES

American Aromatics, Inc., 24 E. 21st St., N. Y. 10
 American-British Chem. Supplies, 180 Madison Ave., N. Y. 16
 Aromatic Products, Inc., 235 4th Ave., N. Y. 3
 Berje Chem. Products, 359 West Broadway, N. Y. 13
 W. J. Bush & Co., 137 Boston Post Rd., Cos Cob, Conn.
 Charabot & Co., 114 E. 25th St., N. Y.
 Antoine Chiris Co., 220 E. 23rd St., N. Y.
 Pierre Coutin Associates, 118 E. 28th St., N. Y.
 De Laire, Inc., 240 W. 30th St., N. Y.
 Descollonges, Inc., 160 5th Ave., N. Y. 10
 Dodge & Olcott, Inc., 180 Varick St., N. Y.
 Dow Chemical Co., Midland, Mich.
 Dragoco, Inc., 250 W. Broadway, N. Y. 13
 P. R. Dreyer, Inc., 601 W. 26th St., N. Y.
 Eastman Chemical Prods. Co., Kingsport, Tenn.
 Felton Chemical Co., 603 Johnson Ave., Bklyn.
 Firmenich, Inc., 250 W. 18th St., N. Y.
 Flam-Haft Laboratories, 8 E. 12 St., N. Y. 3
 Fleuroma, Inc., 38 W. 21st St., N. Y. 10
 Florasynth Laboratories, 900 Van Nest Ave., N. Y.
 Fries & Fries, Inc., 110 E. 70th St., Cincinnati
 Fritzsche Bros., Inc., 76 Ninth Ave., N. Y.
 Givaudan-Delawanna, Inc., 321 W. 44th St., N. Y.
 Gunning & Gunning, 305 E. 46th St., N. Y.
 Heine & Co., 601 W. 26th St., N. Y. 1
 D. W. Hutchinson & Co., 700 S. Columbus Ave., Mt. Vernon, N. Y.
 International Flavors & Fragrances, Inc., 521 W. 57 St., N. Y. C.
 Lautier Fils, 321 Fifth Ave., N. Y.
 Samuel Klein, 94 Cliff St., N. Y.
 Geo. Lueders & Co., 427 Washington St., N. Y.

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"Freon" Propellant	PRODUCT TYPE			
	Space Spray	Surface Spray	Powder Spray	Water-Based Formulae
"Freon-12" dichlorodifluoromethane	(high-pressure 70 psig)			
"Freon-12"- "Freon-11" solutions dichlorodifluoromethane trichloromonofluoromethane	(pressure range 30-40 psig)	(pressure range 12-40 psig)	(pressure range 10-70 psig)	
"Freon-114" dichlorotetrafluoroethane		(12 psig)		(12 psig)
"Freon-12"- "Freon-114" solutions dichlorodifluoromethane dichlorotetrafluoroethane		(pressure range 12-40)		(12-60 psig)
"Freon-12"- "Freon-113" solutions dichlorodifluoromethane trichlorotrifluoroethane		(pressure range 10-70)		

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Space spray, residual spray, foam or powder—Du Pont can furnish a carefully formulated "Freon" propellant best for your aerosol product. In manufacture of "Freon", Du Pont offers aerosol propellents unsurpassed in quality, performance and range of properties. Du Pont maintains the industry's fastest propellant delivery schedules from three plants and a nationwide network of warehouses. To give you extra value, "Freon" pro-

pellents are backed up with complete laboratory and marketing service.

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propellents



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AEROSOL PERFUMES (Contd.)

Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y.
N. Y. Aromatics Corp., Highbridge, N. J.
Neumann-Buslee & Wolfe, 5800 Northwest Hy., Chicago
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.
Noville Essential Oil Co., 1312 5th St., N. Bergen, N. J.
Orbis Products Corp., 601 W. 26th St., N. Y.
S. B. Penick & Co., 100 Church St., N. Y.
Perfumery Associates, Inc., 160 E. 56 St., N. Y.
Perry Bros., Inc., 61-12 32nd Ave., Woodside 77, N. Y.
Polak's Frutal Wks., 33 Sprague Ave., Middletown, N. Y.
Polarome Co., 73 Sullivan St., N. Y. C.
Reynaud, Ltd., 900 21st St., Union City, N. J.
Rhodia, Inc., 60 E. 56th St., N. Y.
F. Ritter & Co., 4001 Goodwin Ave., Los Angeles 39
P. Robertet, Inc., 221 4th Ave., N. Y. 3
Roubechez, Inc., 8 E. 12th St., N. Y. 3
Roure-Dupont, Inc., 366 Madison Ave., N. Y.
Schimmel & Co., 601 W. 26th St., N. Y.
Seeley & Co., Nyack, N. Y.
Shulton, Inc., 630 5th Ave., N. Y.
Synfleur Scientific Labs., Monticello, N. Y.
Standard Aromatics, Inc., 88 University Pl., N. Y. C.
Syntomatic Corp., 114 E. 32nd St., N. Y.
Tombarel Products Corp., 725 Broadway, N. Y. 3
Ungerer & Co., 161 Avenue of Americas, N. Y.
Van Dyk & Co., Belleville, N. J.
Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.
Verona Aromatics, 26 Verona Ave., Newark, N. J.

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Airosol Co., Inc., Neodesha, Kan.
American Potash & Chem. Corp., 3060 W. 6th St., Los Angeles, Calif.
A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18
B. T. Babbitt, Inc., 625 Madison Ave., N. Y. C.
G. Barr & Co., 3601 S. Racine Ave., Chicago
California Spray-Chemical Corp., Richmond, Calif.
Chase Products Co., 20 St. and Gardner Rd., Broadview, Ill.
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
R. S. Cowan Co., 9 E. 38th St., N. Y.
Eveready Pressurized Prods., 1122 Belt Line St., Cleveland 9
Fluid Chem. Co., 878 Mt. Prospect Ave., Newark, N. J.
Fuld Bros., 702 S. Wolfe St., Baltimore, Md.
Gard Industries, 1739 Harding Rd., Northfield, Ill.
General Chemical Div., 40 Rector St., N. Y. 6
Gulf Oil Corp., Pittsburgh 30, Pa.
Hysan Prods. Co., 930 W. 38th Pl., Chicago 9, Ill.
Krylon, Inc., Norristown, Pa.
Lawson Chem. Prods. Co., Gardena, Calif.
Lenk Co., Franklin, Ky.
Old Empire, Mt. Prospect & Verona Aves., Newark, N. J.
Pace, Inc., MacArthur Rd., Wilmington, Del.
Pactra Chemical Co., 1213 Highland, Los Angeles
Pan-Pak, Inc., High St., Attica, N. Y.
Peterson Filling & Packaging Co., Hegeler Lane, Danville, Ill.
Powr-Pak-Conn. Chem., Inc., 145 Howard Ave., Bridgeport, Conn.
Puritan Dist. Co., 160 Washington, N., Boston
Puro Co., 2801 Locust St., St. Louis 3
Regal Chemical Corp., 115 Dobbin St., B'klyn 22, N. Y.
Residex Corp., 1500 W. Elizabeth Ave., Linden, N. J.
Ronor Corp., 1360 W. 9th St., Cleveland, Ohio
Shield Chem. Co., 50 Brook Rd., Needham, Mass.
Sprayon Products, Inc., 2075 E. 65th St., Cleveland
Sprayway, Inc., 7640 Vincennes Ave., Chicago 20, Ill.
Stallfort Pressure-Pak Corp., 319 W. Pratt St., Baltimore
Texas Aerosols, 201 Velasco St., Houston 3
James Varley & Sons, 1200 Switzer Ave., St. Louis
Virginia Smelting Co., W. Norfolk, Va.
Uncle Sam Chem. Co., 575 W. 131st St., N. Y. 27
Wilco Co., 4425 Bandini Blvd., Los Angeles 23
Whitmire Research Corp., 339 S. Vandeventer Ave., St. Louis, Mo.
Woodlets, Inc., 2048 Niagara St., Buffalo, N. Y.
Zenith Drug, Inc., 1 Vesey St., Newark N. J.

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Diamond Alkali Co., Union Commerce Bldg., Cleveland
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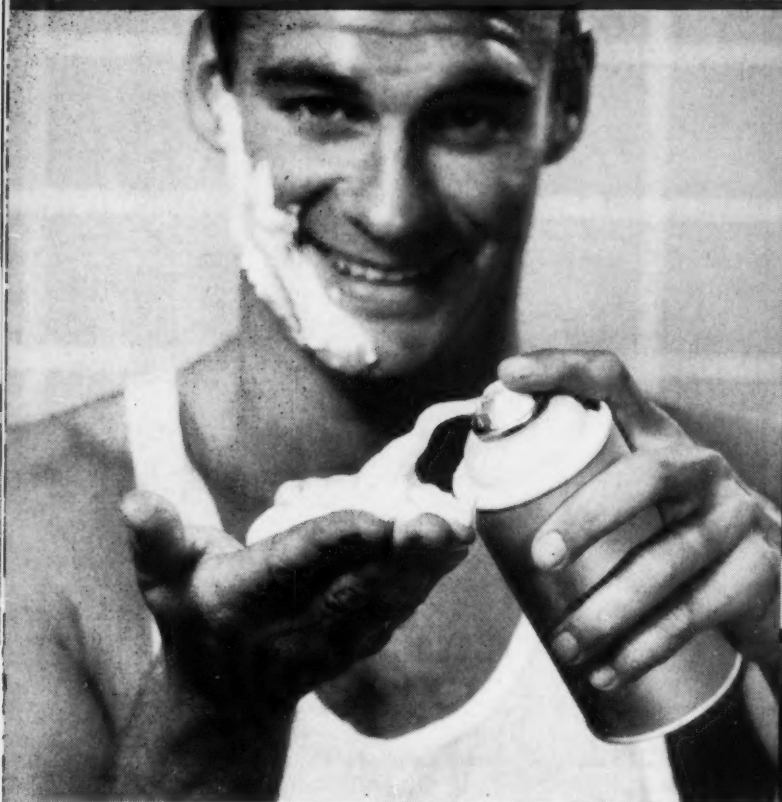
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In perfumes



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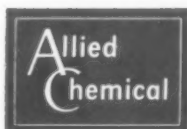
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Capitol Packaging Co., 1501 N. 31 Ave., Melrose Park, Ill.
Chase Products Co., 20 St. & Gardner Rd., Broadview, Ill.
Colgate-Palmolive Co., 300 Park Ave., N. Y.
Continental Filling Corp., Danville, Ill.
Eveready Pressurized Prods., 1122 Belt Line St., Cleveland
Fluid Chem. Co., 878 Mt. Prospect, Newark 4, N. J.
Old Empire, Inc., Mt. Pros. & Verona, Newark, N. J.
Pace, Inc., MacArthur Rd., Wilmington, Del.
Pan-Pak, Inc., High St., Attica, N. Y.
Par Industries, 2193 E. 14th St., Los Angeles 21
Peterson Filling & Packaging Corp., Hegeler Lane, Danville, Ill.
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Sprayway, Inc., 7640 Vincennes, Chicago 20
Stallfort Pressure-Pak Corp., 319 W. Pratt St., Baltimore
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Oil Equipment Labs., Inc., 600 Pearl St., Elizabeth, N. J.
Precision Valve Corp., 700 Nepperhan Ave., Yonkers 3, N. Y.
Pres-Pak Valve Corp., 2060 Happy Lane, St. Louis 25, Mo.
Risdon Mfg. Co., 400 Risdon St., Naugatuck, Conn.
Super Whip Valve Corp., 4101 N. Rockwell St., Chicago 18, Ill.
VCA, Inc., 1720 Fairfield Ave., Bridgeport, Conn.

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Precision Valve Corp., 700 Nepperhan Ave., Yonkers 3, N. Y.
Pres-Pak Valve Corp., 2060 Happy Lane, St. Louis 25, Mo.
Risdon Mfg. Co., 400 Risdon St., Naugatuck, Conn.
Super Whip Valve Corp., 4101 N. Rockwell St., Chicago 18, Ill.

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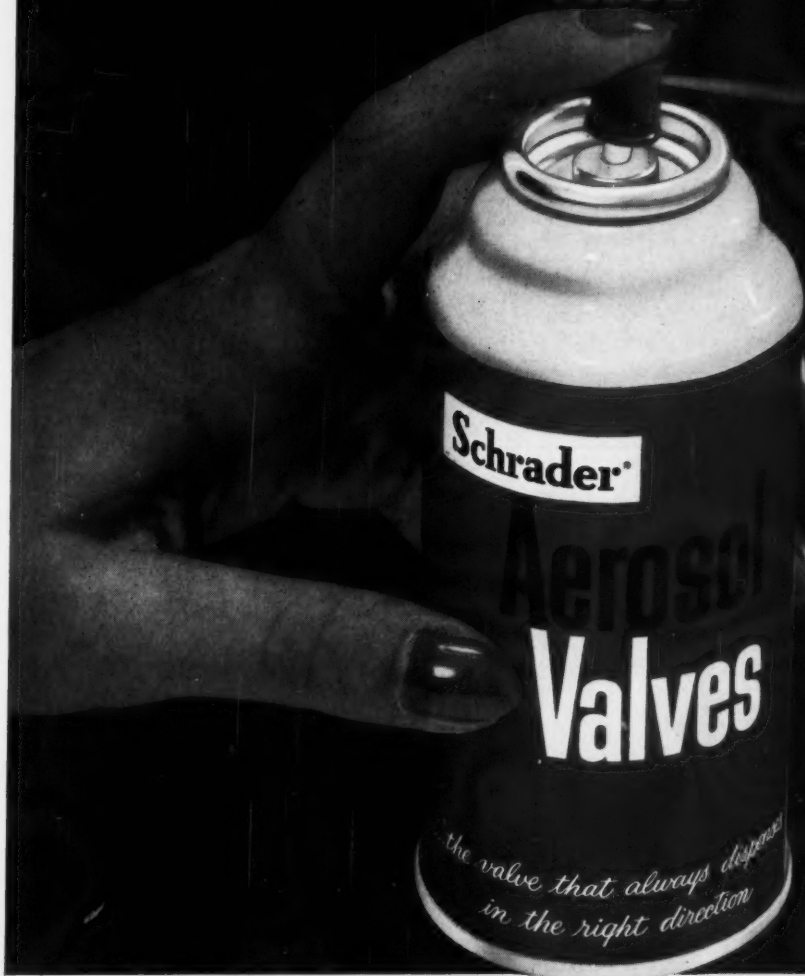
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Reasor-Hill Corp., Jacksonville, Ark.
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Stauffer Chem. Co., 380 Madison Ave., N. Y.
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Olin Mathieson Chem. Corp., Baltimore 3
Pennsalt Chems. Corp., 3 Penn Center, Phila.
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Joseph Turner & Co., Ridgefield, N. J.
Welch, Holme & Clark Co., 1 Hudson St., N. Y.

AMINOHYDROXY COMPOUNDS

Antara Chems. Div., 435 Hudson St., N. Y. 14
Commercial Solvents Corp., 260 Madison Ave., N. Y.
Dow Chemical Co., Midland, Mich.
General Mills, Inc., Kankakee, Ill.
Jefferson Chemical Co., 1121 Walker Ave., Houston, Tex.
Mallinckrodt Chemical Wks., St. Louis 7
Monsanto Chemical Co., St. Louis 24, Mo.
Nalco Chem. Co., 6216 W. 66 Pl., Chicago 38
Olin Mathieson Chem. Corp., 745 5th Ave., N. Y. 22
Pennsalt Chems. Corp., 3 Penn Center, Phila.
Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17

AMMONIA (Anhydrous and Aqueous)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
Atlantic Refining Co., 260 S. Broad St., Phila.
Dow Chem. Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
General Chemical Div., 40 Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Mallinckrodt Chemical Wks., St. Louis
Merck & Co., Rahway, N. J.
Monsanto Chemical Co., St. Louis 24, Mo.
Nitrogen Div., 40 Rector St., N. Y.
Olin Mathieson Chem. Corp., Baltimore 3
Pennsalt Chemicals Corp., 3 Penn Center, Phila. 2
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Sinclair Petrochems., 600 5th Ave., N. Y. 20
Sun Oil Co., 1608 Walnut St., Phila.
Texaco, Inc., 135 E. 42nd St., N. Y. 17
Jos. Turner & Co., Ridgefield, N. J.
U. S. Industrial Chems. Co., 99 Park Ave., N. Y. 16
Westvaco Chlor-Alkali Div., 161 E. 42nd St., N. Y.

AMMONIA, HOUSEHOLD (see Household Ammonia)

AMMONIUM BORATE

U. S. Borax & Chem. Corp., 50 Rockefeller Plaza, N. Y.
Harshaw Chem. Co., 1945 E. 97 St., Cleveland

AMMONIUM BICARBONATE

American-British Chem. Supplies, 180 Madison Ave., N. Y. 16
J. T. Baker Chemical Co., Phillipsburg, N. J.
Solvay Process Div., 61 Broadway, N. Y.

AMMONIUM CARBONATE

American Agricultural Chem. Co., 100 Church St., N. Y.
American-British Chem. Supplies, 180 Madison Ave., N. Y. 16
J. T. Baker Chem. Co., Phillipsburg, N. J.
Harshaw Chem. Co., 1945 E. 97th St., Cleveland
Mallinckrodt Chem. Wks., St. Louis 7
Merck & Co., Rahway, N. J.
Robeco Chemicals, Inc., 23 E. 26 St., N. Y. 10

AMMONIUM CHLORIDE

J. T. Baker Chem. Co., Phillipsburg, N. J.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Mallinckrodt Chem. Wks., St. Louis 7
Merck & Co., Rahway, N. J.
S. B. Penick & Co., NYQ Chem. Div., 100 Church St., N. Y. 8
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Robeco Chemicals, Inc., 23 E. 26 St., N. Y.
Solvay Process Div., 61 Broadway, N. Y.
Welch, Holme & Clark Co., 1 Hudson St., N. Y.

AMMONIUM THIOGLYCOLATE

Evans Chemetics, Inc., 250 E. 43rd St., N. Y. 17
Morton Chem. Co., 110 N. Wacker Dr., Chicago 6
Rayette, Inc., 261 E. 5th St., St. Paul, Minn.
Summit Chem. Prods. Corp., Belleville 3, N. J.

AMYL SALICYLATE (see Aromatic Chemicals)

ANISE OIL (see Essential Oils)

ANT POISONS

California Spray-Chemical Corp., Richmond, Calif.
Fuld Bros., 702 S. Wolfe St., Baltimore
Exterminating Materials Co., 555 W. 22nd St., N. Y.
Geigy Agricultural Chemicals, Ardsley, N. Y.
General Chemical Div., 40 Rector St., N. Y.
Hub States Chem. & Equipmt. Co., 1255 N. Windsor St., Indianapolis
Hysan Products Co., 930 W. 38th Place, Chicago
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
O. E. Linck Co., 51 James St., Montclair, N. J.
S. B. Penick & Co., 100 Church St., N. Y. 8
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kans.
Residex Corp., 1500 W. Elizabeth Ave., Linden, N. J.
Sennewald Drug Co., Inc., 2721 Chouteau Ave., St. Louis
J. A. Tumbler Labs., 423 Hanover St., Baltimore
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12

ANTIOXIDANTS (For Soaps, Oils, Fats, etc.)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Antara Chemicals, 435 Hudson St., N. Y.
Archer-Daniels-Midland Co., Chem. Prods. Div., Minneapolis 2
Catalin Corp., of America, 1 Park Ave., N. Y.
Chemo Puro Mfg. Corp., 60 E. 42 St., N. Y. C.
Dow Chem. Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Dela.
Eastman Chem. Prods., Kingsport, Tenn.
Enjay Co., 15 W. 51st St., N. Y. 19
Fine Organics, Inc., 205 Main St., Lodi, N. J.
Fleetwood Prods. Co., 509 5th Ave., N. Y. 17
Geigy Industrial Chemicals, Ardsley, N. Y.
B. F. Goodrich Chemical Co., 3135 Euclid Ave., Cleveland 15
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y. 20
Heyden Newport Chem. Corp., 342 Madison Ave., N. Y. 17
Hercules Powder Co., Wilmington
Jefferson Chem. Co., 1121 Walker Ave., Houston, Tex.
Merck & Co., Rahway, N. J.

Monsanto Chemical Co., St. Louis 24, Mo.
National Aniline Division, 40 Rector St., N. Y.
Olin Mathieson Chem. Corp., Baltimore 3
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.
S. P. Penick & Co., 100 Church St., N. Y. 8
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn. 6
Shell Chem. Corp., 50 W. 50th St., N. Y. 20
Sinclair Petrochemicals, Inc., 600 5th Ave., N. Y. 20
Sindar Corp., 321 W. 44th St., N. Y. C.
Sterwin Chemicals, Inc., 1450 Broadway, N. Y. 18
Van Dyk & Co., Main & Williams Sts., Belleville, N. J.
R. T. Vanderbilt Co., 230 Park Ave., N. Y. 17
Witco Chem. Co., 122 E. 42 St., N. Y. 17

ANTISEPTIC SOAP (see Soaps, Antiseptic)

ANTU CONCENTRATES

McLaughlin, Gormley, King Co., 1715 5 St., SE, Minneapolis
S. B. Penick & Co., 100 Church Ave., New York
Prentiss Drug & Chem. Co., 101 W. 31 St., N. Y. 1

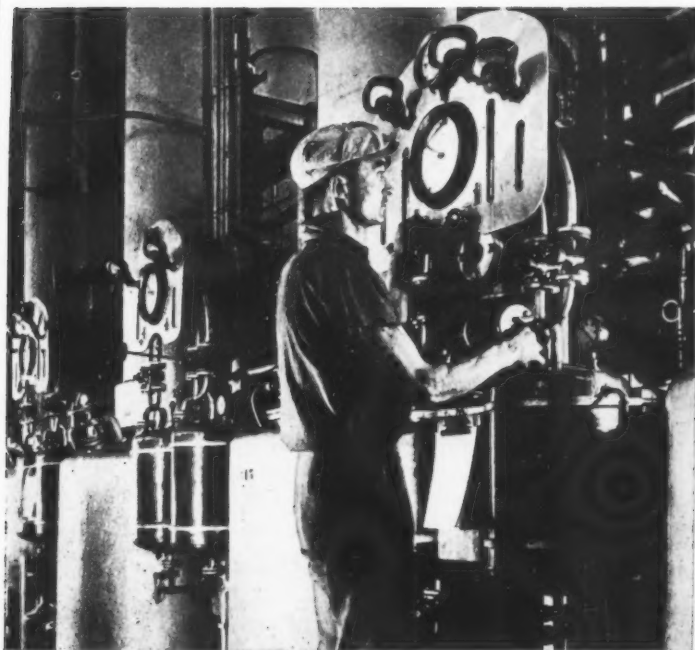
APPLICATORS (for Floor Wax)

American Standard Mfg. Co., 2509 S. Green St., Chicago
American Textile Prods. Co., 5606 Euclid Ave., Cleveland
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago
Laitner Brush Co., 2000 Brooklyn Ave., Detroit
Layflat Products, Inc., 961 Grimmer Dr., Shreveport, La.
Moran Brush Mfg. Co., 30 Manila Ave., Hamden, Conn.
Palmer Fixture Co., 201 Albert St., Waukesha, Wisc.
D. B. Smith & Co., 414 Main St., Utica 2, N. Y.
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.

AROMATIC CHEMICALS (for Perfuming)

Alpine Aromatics, Inc., 398 Main St., Metuchen, N. J.
American Aromatics, Inc., 24 E. 21st St., N. Y. 10
Aromatic Products, Inc., 235 4th Ave., N. Y. 3
Berje Chem. Prods., 359 West Broadway, N. Y. 13
Biddle Sawyer Corp., 20 Vesey St., N. Y. 7
W. J. Bush & Co., 137 Boston Post Rd., Cos Cob, Conn.
Charabot, Inc., 114 E. 25th St., N. Y.
Antoine Chiris Co., 220 E. 23rd St., N. Y. C.
Pierre Coutin Associates, 118 E. 28th St., N. Y.
Gerard J. Danco Int. Corp., 5 E. 19th St., N. Y. 3
Delaire, Inc., 240 W. 30th St., N. Y.
Descollonges, Inc., 160 5th Ave., N. Y. 10
Dodge & Olcott, Inc., 180 Varick St., N. Y.
Dow Chemical Co., Midland, Mich.
Dragoco, Inc., 250 W. Broadway, N. Y. 13
P. R. Dreyer, Inc., 601 W. 26th St., N. Y.
Eastman Chem. Prods., Kingsport, Tenn.
Felton Chemical Co., 603 Johnson Ave., Brooklyn
Firmenich, Inc., 250 W. 18th St., N. Y.
Fisher Chemical Co., 220 E. 42nd St., N. Y.
Flam-Haft Laboratories, 8 E. 12th St., N. Y. 3
Fleetwood Prod. Co., 509 5th Ave., N. Y.
Fleuroma, Inc., 38 W. 21st St., N. Y. 10
Florasynth Laboratories, 900 Van Nest Ave., N. Y.
Fries & Fries, Inc., 110 E. 70th St., Cincinnati
Fritzsche Brothers, Inc., 76 Ninth Ave., N. Y.
Givaudan-Delawanna, Inc., 321 W. 44th St., N. Y.
Glidden Co., Jacksonville, Fla.
Gunning & Gunning, 601 W. 26th St., N. Y.
Heine & Co., 601 W. 26th St., N. Y. 1
Hoffman-LaRoche, Inc., Nutley, N. J.
D. W. Hutchinson & Co., 700 South Columbus Ave., Mt. Vernon, N. Y.
International Flavors & Fragrances, Inc., 521 W. 57 St., N. Y. C.
Kay-Fries Chems., Inc., 180 Madison Ave., N. Y. 16
Lautier Fils Inc., 321 Fifth Ave., N. Y.
George Lueders & Co., 427 Washington St., N. Y.
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y.
Neumann-Buslee & Wolfe, 5800 Northwest Highway, Chicago
N. Y. Aromatics Corp., Highbridge, N. J.
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.
Noville Essential Oil Co., 1312 5th St., N. Bergen, N. J.
Orbis Products Corp., 601 W. 26th St., N. Y.
S. B. Penick & Co., 100 Church St., N. Y.
Perfumery Associates, Inc., 160 E. 56th St., N. Y.
Perry Bros., Inc., 61-12 32nd Ave., Woodside 77, N. Y.
Polak's Frutal Wks., Inc., 33 Sprague Ave., Middletown, N. Y.
Polarome Mfg. Co., 73 Sullivan St., N. Y. 12
Reynaud, Ltd., 900 21 St., Union City, N. J.
Rhodia, Inc., 60 E. 56th St., N. Y. 22

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 Dimethyl Anthranilate • Folrosia • Geraniol and Esters • Heliotropin
 Hydroxycitronellal (Laurine®) • Indole • Ionones (Irisones®) • Lilial®
 Linalool and Esters • Methyl Diphenyl Ether • Methyl Heptine Carbonate (Folione®)
 Methyl Ionones (Raldeines®) • Moskene® • Musk Ambrette • Musk Ketone
 Musk Xylol • Nerone (Mentheryl Ketone) • Phenyl Acetaldehyde and Acetal
 Phenyl Ethyl Alcohol and Derivatives • Phenyl Propyl Alcohol • Rhodinol and Esters
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AROMATIC CHEMICALS (Contd.)

Roubechez, Inc., 8 E. 12th St., N. Y. 3
Roure-Dupont, 366 Madison Ave., N. Y.
Schimmel & Co., 601 W. 26th St., N. Y.
Seeley & Co., Nyack, N. Y.
Shulton, Inc., 630 5 Ave., N. Y.
Synfleur Scientific Labs., Monticello, N. Y.
Syntomatic Corp., 114 E. 32nd St., N. Y.
A. M. Todd Co., Kalamazoo, Mich.
Tombarel Products Corp., 725 Broadway, N. Y. 3
Trubek Laboratories, E. Rutherford, N. J.
Ungerer & Co., 161 Avenue of Americas, N. Y.
Van Dyk & Co., Belleville 9, N. J.
Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.
Verona Aromatics, 26 Verona Ave., Newark, N. J.

ARSENICAL DIPS

Baird & McGuire, Inc., Holbrook, Mass.
California Spray-Chemical Corp., Richmond, Calif.
Chem. Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Chipman Chemical Co., Bound Brook, N. J.
General Chemicals Div., 40 Rector St., N. Y.
James Good Co., 2104 Susquehanna Ave., Phila.
Industrial Materials Co., 1017 McCall St., Houston
McLaughlin Gormley King Co., Minneapolis
Thompson-Hayward Chemical Co., 2015 Southwest Blvd., Kansas City Mo.
U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis

ATOMIZERS (see Sprayers and Atomizers, Bottle)

BACTERIOSTATS

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Antara Chem. Div., 435 Hudson St., N. Y. 14
Archer-Daniels-Midland Co., Minneapolis
Armour Industrial Chem., 110 N. Wacker Dr., Chicago
Bex Industries, Inc., 210 5 Ave., N. Y.
Catalin Corp. of America, 1 Park Ave., N. Y.
Chemo Puro Mfg. Corp., 60 E. 42 St., N. Y. C.
Ciba Co., Fair Lawn, N. J.
Dow Chem. Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Fine Organics, Inc., 205 Main St., Lodi, N. Y.
Fleetwood Prods. Co., 509 5th Ave., N. Y.
Geigy Industrial Chemicals, Ardsley, N. Y.
Heyden Newport Chem. Corp., 342 Madison Ave., N. Y. 17
Intex Chem. Corp., 167 Main St., Lodi, N. J.
M. Michel & Co., 90 Broad St., N. Y. 4
Monsanto Chemical Co., St. Louis 24, Mo.
Nalco Chem. Co., 6216 W. 66 Pl., Chicago
Olin Mathieson Chem. Corp., Baltimore 3
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City, N. J.
Ottawa Chem. Co., 823 Hamilton St., Toledo 7, O.
Pennsalt Chems. Corp., 3 Penn Center, Phila.
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn. 6
Rohm & Haas Co., Washington Sq., Phila.
Sandoz, Inc., 61 Van Dam St., N. Y. 13
Sindar Corp., 321 W. 44th St., N. Y. C.
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
Sterwin Chems., Inc., 1450 Broadway, N. Y. 18
R. T. Vanderbilt Co., 230 Park Ave., N. Y. 17
Wilson-Martin Div., Snyder & Swanson St., Phila.
Witco Chem. Co., 122 E. 42 St., N. Y. 17

BAG LINERS (see Liners)

BAGS (Cloth)

Bemis Bro. Bag Co., 601 S. 41st St., St. Louis
Chase Bag Co., 309 W. Jackson Blvd., Chicago
Fulton Bag & Cotton Mills, Atlanta, Ga.
Hammond Bag & Paper Co., Wellsburgh, W. Va.
Mente & Co., Montegut & N. Villere Sts., New Orleans
Virginia-Carolina Chem. Corp., Richmond, Va.

BAGS (Multiwall)

Arkell & Smiths, Canajoharie, N. Y.
Bagpak Div., 220 E. 42nd St., N. Y.
Bemis Bro. Bag Co., 601 S. 4th St., St. Louis

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Fulton Bag & Cotton Mills, Atlanta
Hammond Bag & Paper Co., Wellsburgh, W. Va.
Hudson Pulp & Paper Co., 505 Park Ave., N. Y.
Kraft Bag Corp., 630—5th Ave., N. Y. 20
Owens-Illinois Glass Co., Toledo 1, O.
St. Regis Paper Co., 230 Park Ave., N. Y.
Union Bag-Camp Paper Corp., 233 Broadway, N. Y.

BAGS, Paper

American Bag & Paper Corp., Water & South Sts., Phila.
Cellu-Craft Prods. Corp., 1401 4 Ave., New Hyde Park, N. Y.
Chase Bag Co., 309 W. Jackson Blvd., Chicago
Continental Can Co., 100 E. 42nd St., N. Y. 17
Equitable Paper Bag Co., 45-50 Van Dam St., Long Island City, N. Y.
Gaylor Container Corp., 111 N. 4th St., St. Louis
Milprint, Inc., Milwaukee 1, Wisc.
Oneida Paper Prods. Co., Clifton, N. J.
Premier Bag Co., Lyndhurst, N. J.
Union Bag-Camp Paper Corp., 233 Broadway, N. Y.
Western Waxed Paper Div., San Leandro, Calif.

BAGS (Transparent Film)

American Bag & Paper Corp., Water & South Sts., Phila.
Arkell Safety Bag Co., 10 E. 40th St., N. Y. 16
Arvey Corp., 3462 N. Kimball Ave., Chicago
Bemis Bros. Bag Co., St. Louis 2
Canton Containers, Inc., Canton, O.
Cellu-Craft Prods. Corp., 1401 4 Ave., New Hyde Park, N. Y.
Chase Bag Co., 309 W. Jackson Blvd., Chicago
Continental Can Co., 100 E. 42nd St., N. Y.
Equitable Paper Bag Co., 45-50 Van Dam, L. I. C., N. Y.
H & R Industries, Nazareth, Pa.
Howard Plastics, Council Bluffs, Iowa
Kartidg Pak Co., 9151 W. Fullerton Ave., Franklin Park, Ill.
Milprint, Inc., Milwaukee, Wisc.
Nashua Corp., Nashua, N. H.
Oneida Paper Prods., Inc., 10 Clifton Blvd., Clifton, N. J.
Standard Packaging Corp., 551 5th Ave., N. Y.

BALSAMS (see Essential Oils)

BARREL LINERS, (see Liners)

BARREL PUMPS (see Pumps, Dispensing)

BARRELS (Fibre)

Benton Fibre Drum Co., 186 Van Dyke St., Bklyn. 31
Bennett Industries, Inc., 122 Washington St., Peotone, Ill.
Carpenter Container Co., 147—41st St., Brooklyn
Continental Can Co., 100 E. 42nd St., N. Y. 17
Federal Fibre Corp., 3704 10th St., L. I. C. 1, N. Y.
Fibre Drum Co., 20 N. Wacker Dr., Chicago 6
Master Package Corp., Owen, Wisc.
Rheem Mfg. Co., 1701 Edgar Rd., W., Linden, N. J.
Seymour & Peck Co., Blue Island, Ill.

BARRELS (Metal)

Bennett Industries, 122 Washington St., Peotone, Ill.
Columbia Can Co., 59-27 54th St., Maspeth 78, N. Y.
Eastern Can Co., Keap St., & Kent Ave., Bklyn.
Inland Steel Container Co., 6532 S. Menard Ave., Chicago
Jones & Laughlin Steel Corp., 3 Gateway Center, Pittsburgh
National Steel Con. Corp., 67000 S. LeClaire, Chicago
Pressed Steel Tank Co., Milwaukee, Wisc.
Republic Steel Package Co., 7930 Jones Rd., Cleveland
Rheem Mfg. Co., 1701 Edgar Rd., W., Linden, N. J.
St. Louis Steel Package Co., St. Louis
Southwestern Steel Container Co., 3301 S. Lamar St., Dallas
Terris Div. Consolidated Siphon Supply Co., 22 Wooster St., N. Y.
U. S. Steel Prods. Co., 30 Rockefeller Plaze, N. Y.
Vulcan Containers Inc., Bellwood, Ill.
Vulcan Steel Container Co., 3315 N. 35th Ave., Birmingham, Ala.
Wheeling Corrugating Co., Wheeling, W. Va.

BARRELS (Wooden)

Atlas Plywood Corp., Boston 16, Mass.
Edwin Bell Cooperage Co., S. 17th St., Pittsburgh

Duff California Co., 100 Bush St., San Francisco
John Eppler Co., 1204 S. Sharp St., Baltimore
Gibbs Bros. Cooperage Co., Hot Springs, Ark.
Grief Bros. Cooperage Corp., Delaware, O.
International Cooperage Co., Niagara Falls, N. Y.
Monmouth Container Corp., Matawan, N. J.
Virginia Barrel Co., 178 Holland Ave., Staten Island, N. Y.

BARREL TILTERS

Economy Eng. Co., 2651 W. Van Buren St., Chicago
Formula Floor Products, 99 Frelinghuysen Ave., Newark, N. J.
Morse Mfg. Co., 753 W. Manlius St., E. Syracuse, N. Y.
Multi-Meter Corp., 1635 Coining Dr., Toledo, O.
Terris Div., Consolidated Siphon Supply Co., 22 Wooster St., N. Y.
Paul O. Young Co., Lexington, Pa.

BARRIER CREAMS (see Hand Creams, Protective)

BASE OILS (see Insecticide Oils)

BATH SALTS

A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18
Davies-Young Soap Co., Dayton 1, Ohio
Flam-Haft Laboratories, 8 E. 12th St., N. Y. 3
Hewitt Soap Co., Dayton, O.
Higley Chem. Co., Dubuque, Iowa
Hysan Prods. Co., 930 W. 38th Place, Chicago
Lightfoot Co., 380 Madison Ave., N. Y. C.
Trio Chem. Wks., 341 Scholes St., Brooklyn

BENTONITE

American Colloid Co., 5100 Suffield Ct., Skokie, Ill.
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Archer-Daniels-Midland Co., Minneapolis
Chas B. Chrystal Co., 53 Park Pl., N. Y.
Minerals & Chems. Corp. of America, Menlo Park, N. J.
Robeco Chems., Inc., 23 E. 26 St., N. Y.
L. A. Solomon & Bro., 216 Pearl St., N. Y.
F. E. Schundler & Co., Joliet, Ill.
Tamm Industries, Inc., 228 N. La Salle St., Chicago
United Clay Mines Corp., 101 Oakland St., Trenton, N. J.
Virginia-Carolina Chem. Corp., Richmond, Va.
Charles A. Wagner Co., 4455 N. 6th St., Phila.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Whittaker, Clark & Daniels, 100 Church St., N. Y.

BENZALDEHYDE

Antara Chemicals, 435 Hudson St., N. Y. 14
Aromatic Products, Inc., 235 4th Ave., N. Y. 3
Dodge & Olcott, Inc., 180 Varick St., N. Y.
Dragoco, Inc., 250 W. Broadway, N. Y. C.
P. R. Dreyer, Inc., 601 W. 26th St., N. Y.
Felton Chemical Co., 603 Johnson Ave., Brooklyn
Florasynth Laboratories, 900 Van Nest Ave., N. Y.
Fitzsche Brothers, Inc., 76 Ninth Ave., N. Y.
Givaudan-Delawanna, Inc., 321 W. 44th St., N. Y.
R. W. Greeff Co., 10 Rockefeller Plaza, N. Y. 20
Heyden Newport Chem. Corp., 342 Madison Ave., N. Y. 17
International Flavors & Fragrances, Inc., 521 W. 57 St., N. Y. C.
Geo. Lueders & Co., 427 Washington Ave., N. Y. 13
Lautier Fils, 321 Fifth Ave., N. Y. 16
Magnus Mabree & Reynard, 16 Desbrosses St., N. Y.
Neumann-Buslee & Wolfe, 5800 Northwest Highway, Chicago
Norda Essential Oil & Chem. Co., 601 W. 21st St., N. Y. 1
Orbis Products Corp., 601 W. 26th St., N. Y.
S. B. Penick & Co., 100 Church St., N. Y. 8
Poiak's Frutal Wks., 33 Sprague Ave., Middletown, N. Y.
Rhodia, Inc., 60 E. 56th St., N. Y.
Schimmel & Co., 601 W. 26th St., N. Y.
Tombarel Products Corp., 725 Broadway, N. Y. 3
Ungerer & Co., 161 Avenue of the Americas, N. Y.
van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y. 19
Van Dyk & Co., Belleville, N. J.
Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.
Verona Aromatics, 26 Verona Ave., Newark 4, N. J.

BENZOIC ACID

Aceto Chem. Co., 40-40 Lawrence St., Flushing, N. Y.
Heyden Newport Chem. Corp., 342 Madison Ave., N. Y. 17
Hooker Chem. Corp., Niagara Falls, N. Y.

Monsanto Chemical Co., St. Louis 24, Mo.
S. B. Penick & Co., NYQ Chem. Div., 100 Church St., N. Y. 8
Robeco Chems., Inc., 23 E. 26th St., N. Y. 10
Tennessee Prods. & Chem. Corp., Nashville, Tenn.

BENZOL (Benzene)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Amoco Chems. Corp., 910 S. Michigan Ave., Chicago
Amsco Solvents & Chemicals Co., 4619 Reading Road, Cincinnati 29
Buffalo Solvents & Chemicals Corp., Box 73 Station B., Buffalo, N. Y.
Central Solvents & Chemicals Co., 2540 Flournoy St., Chicago 12
Chemo Puro Mfg. Co., 60 E. 42 St., N. Y. C.
Concord Chemical Co., 205 S. 2nd St., Camden, N. J.
Continental Oil Co., 1270 Ave. of Americas, N. Y. 20
Dixie Solvents & Chems. Co., Dixie Highway at Appleton, Louisville
Eastern States Pet. & Chem. Corp., Houston 12, Tex.
Enjay Co., 15 W. 51st St., N. Y. 19
Gulf Oil Corp., 360 Lexington Ave., N. Y.
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis
Jones & Laughlin Steel Corp., Pittsburgh 30
Koppers Co., Chamber of Commerce Bldg., Pittsburgh
Missouri Solvent & Chemical Co., 419 De Soto Ave., St. Louis
Neville Chemical Co., Pittsburgh
Ohio Solvents & Chemicals Co., 3570 W. 140th St., Cleveland
Plastics & Coal Chem. Div., 40 Rector St., N. Y. 6
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.
Shell Chemical Corp., 50 W. 50th St., N. Y.
Southern Solvents & Chemicals Corp., 917 Jefferson Highway, New Orleans
Sun Oil Co., 1608 Walnut St., Philadelphia 3
Tenn. Prod. & Chem. Corp., Nashville 3, Tenn.
Texas Solvents & Chemicals Co., 8501 Market St., Houston
Toledo Sols. & Chems. Co., 4051 South Ave., Toledo, O.
Velsicol Chem. Corp., 330 E. Grand Ave., Chicago
Western Solvents Chemicals Co., 6472 Selkirk Ave., Detroit
Wisconsin Solvents & Chemicals Corp., 1719 S. 82 St., Milwaukee, Wisc.
Wolverine Sols. & Chems. Co., 2940 Stafford Ave., S.W., Grand Rapids

BERGAMOT OIL (see Essential Oils)

BICARBONATE OF SODA (see Sodium Bicarbonate)

BICHROMATES

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Diamond Alkali Co., Union Commerce Bldg., Cleveland
E. I. du Pont de Nemours & Co., Wilmington, Del.
Fiber Chem. Corp., Matawan, N. J.
General Chem. Div., 40 Rector St., N. Y. 6
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Mallinckrodt Chem. Wks., St. Louis 7
Merck & Co., Rahway, N. J.
Mutual Chem. Div., 98 Park Ave., N. Y.
Prior Chem. Corp., 420 Lexington Ave., N. Y.
Robeco Chemicals, Inc., 23 E. 26 St., N. Y.
Solvay Process Div., 61 Broadway, N. Y. 6
Jos. Turner & Co., Ridgefield, N. J.

BLEACH, DRY (see Dry Bleach)

BLEACH, LIQUID (see Laundry Bleach)

BLEACHING AGENTS (see Chlorine, Peroxide, etc.)

BLEACHING EARTHS and CARBONS (see also Clays)

Chas. B. Crystal Co., 53 Park Pl., N. Y.
Dicalite Div., 612 S. Flower St., Los Angeles, Calif.
Filtrol Corp., 3250 E. Washington Blvd., Los Angeles
Johns-Manville Prods. Corp., 22 E. 40th St., N. Y.
J. M. Huber Corp., 630 3rd Ave., New York
Industrial Chem. Sales Div., 230 Park Ave., N. Y.
Minerals & Chems. Corp. of America, Menlo Park, N. J.
Tamm Industries, Inc., 228 N. LaSalle St., Chicago
Whittaker, Clark & Daniels, 100 Church St., N. Y.
Witco Chemical Co., 122 E. 42nd St., N. Y.
Wyandotte Chemicals Corp., Wyandotte, Mich.

BLEACHING EQUIPMENT (see Deodorizing and Bleaching Equipment)

BLEACHING POWDER (Chloride of Lime)

Dow Chemical Co., Midland, Mich.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6

Monsanto Chemical Co., St. Louis 24, Mo.
Olin Mathieson Chem. Corp., Baltimore 3
Pennsalt Chems. Corp., 3 Penn Center, Phila.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Westvaco Mineral Prods. Div., 161 E. 42nd St., N. Y.

BLENDERS (Blending Machinery)

Alsop Engineering Corp., Milldale, Conn.
Brower Mfg. Co., 411 N. 3rd St., Quincy, Ill.
Arthur Colton Co., 3431 E. Lafayette, Detroit
Conn. & Co., 9 S. Marion St., Warren, Pa.
Craddock Equipment Co., 1507 A St., Wilmington, Del.
J. H. Day Co., Cincinnati 12
Eastern Industries, Inc., Hamden 14, Conn.
Ertel Engineering Corp., W. Front St., Kingston, N. Y.
Filpaco Industries, 2464 S. Michigan Ave., Chicago
First Machy. Corp., 209 10 St., Bklyn. 15 (used)
B. F. Gump Co., 1338 S. Cicero Ave., Chicago
Houchin Machinery Co., Hawthorne, N. J.
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.
G. Mazzoni, Busto Arsizio, Italy
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
Mixing Equipment Co., 167 Mt. Read Blvd., Rochester, N. Y.
Munson Mill Machy. Co., 210 Seward Ave., Utica, N. Y.
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)
Rapids Machy. Co., Marion, Ia.
Read Standard Division, York, Pa.
Chas. Ross & Son Co., 150 Classon Ave., Brooklyn
Sprout, Waldron & Co., Muncy, Pa.
F. J. Stokes Corp., 5500 Tabor Rd., Phila.
Strong-Scott Mfg. Co., 451 Taft St. NE, Minneapolis, Minn.
Terris Div. Consolidated Siphon Supply Co., 22 Wooster St., N. Y.
Young Machy. Co., Muncy, Pa.

BLOCK HOLDERS (see Deodorizing Block Holders)

BLOWERS, ELECTRIC (see Sprayers, Electric)

BLOWERS, FOR POWDERS (see Dusters, Insecticide Powder)

BLUEING (see Laundry Blue)

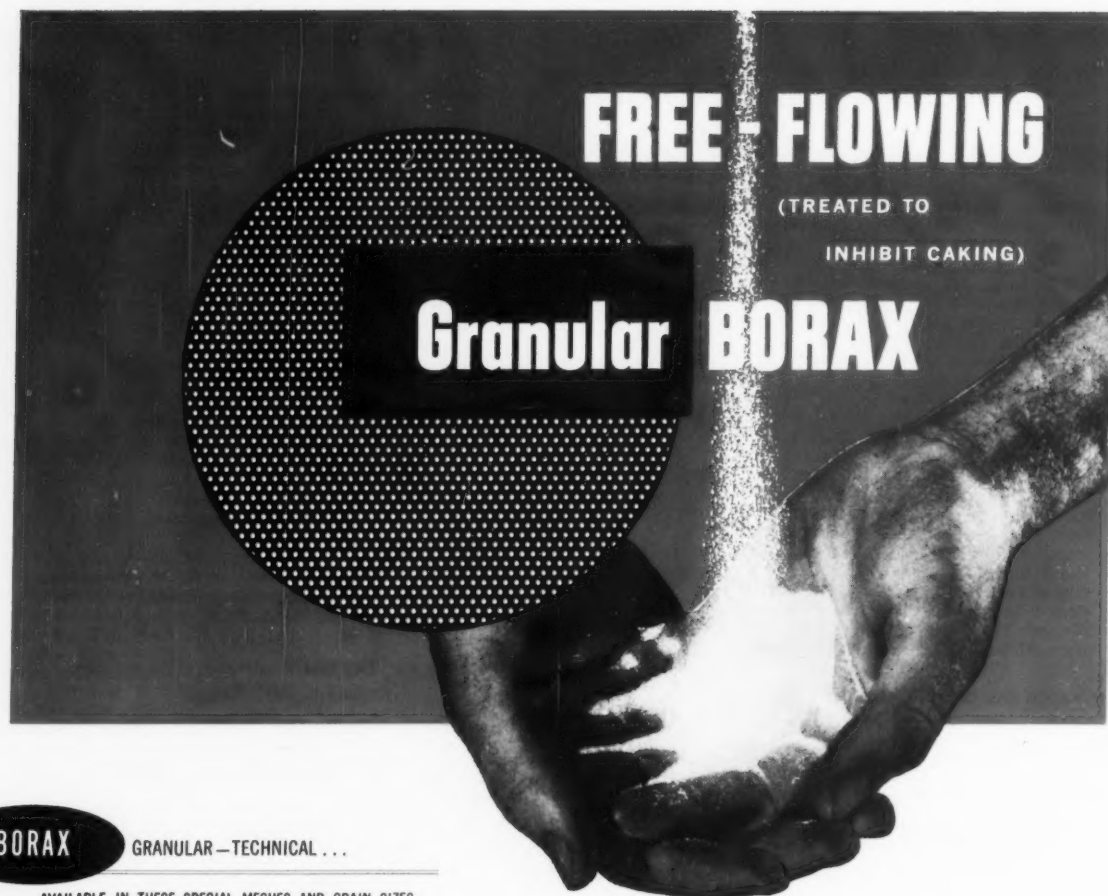
BOILER COMPOUNDS

American Colloid Co., 5100 Suffield Ct., Skokie, Ill.
Blockson Chemical Co., Joliet, Ill.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Dow Chemical Co., Midland, Mich.
Frontier Chem. Prods., Inc., 119 E. Soper St., St. Louis
Geigy Industrial Chemicals, Ardsley, N. Y.
Haag Laboratories, 140th & Seeley, Blue Island, Ill.
Harley Soap Co., Pearce & Orthodox Sts., Phila. 37
R. M. Hollingshead Corp., Camden, N. J.
Industrial Materials Co., 1017 McCall St., Houston
Jefferson Chemical Co., 1121 Walker Ave., Houston, Tex.
Jones-Hamilton Co., 455 Wells Ave., Newark, Calif.
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Monsanto Chemical Co., St. Louis 24, Mo.
Olin Mathieson Chem. Corp., Baltimore 3
Nalco Chem. Co., 6216 W. 66 Pl., Chicago
Peck's Products Co., 610 E. Clarence Ave., St. Louis 15
Pennsalt Chemicals Corp., 3 Penn Center Plaza, Phila.
Permutit Co., 330 W. 42nd St., N. Y.
Rumford Co., Rumford 16, R. I.
S. & S. Soap Co., 815 E. 135th St., N. Y. 54
John T. Stanley Co., 642 W. 30 St., N. Y. 1
Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
Trio Chem. Wks., 341 Scholes St., Brooklyn
Ultra Chem. Wks. P. O. Box 1536, Paterson, N. J.
Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17
Westvaco Mineral Prod. Div., 161 E. 42nd St., N. Y.
Wyandotte Chemicals Corp., Wyandotte, Mich.

BOIS de ROSE OIL (see Essential Oils)

BORAX (and Boric Acid)

American Potash & Chem. Corp., 3030 W. 6th St., Los Angeles
Columbia-Southern Chem. Corp., Pittsburgh
E. I. du Pont de Nemours & Co., Wilmington, Del.



FREE - FLOWING

(TREATED TO

INHIBIT CAKING)

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BORAX

GRANULAR—TECHNICAL . . .

AVAILABLE IN THESE SPECIAL MESHES AND GRAIN SIZES . . .

Name & Screen Designation	Typical Particle Size Range U. S. Standard Sieve No.	Screen Specification U. S. Standard Sieve No. When Packed
Granular 8/40 (Special Mesh)	+ 8 Nil + 40 96.8%	+ 45 min. 95%
Granular 8/60 (Special Mesh)	+ 8 Nil + 60 80.0%	+ 8 none + 100 min. 90%
Granular 30/60 (Special Mesh)	+ 30 0.5% + 60 69.8%	+ 30 max. 1% + 100 min. 80%
Granular 30/70 (Special Mesh)	+ 30 0.3% + 70 71.0%	+ 30 max. 1% + 40 max. 20%
Granular 30/80 (Special Mesh)	+ 30 0.8% + 80 76.6%	+ 30 max. 1%
Granular 30/100 (Special Mesh)	+ 30 Nil + 100 86.7%	+ 35 none + 100 min. 85%
Granular 40/100 (Special Mesh)	+ 40 Nil + 100 89.0%	+ 40 max. 0.5% + 100 min. 88%
Granular 40/140 (Special Mesh)	+ 40 0.1% + 140 88.8%	+ 35 none + 100 min. 50%
Granular 40/200 (Special Mesh)	+ 40 0.1% + 200 84.1%	+ 30 none
Granular 60/200 (Special Mesh)	+ 60 0.1% + 200 66.7%	+ 60 max. 1%
Granular 80/200 (Special Mesh)	+ 80 2.0% + 200 67.6%	+ 60 none + 80 max. 5%

Powdered Hand Soaps are better performers when borax is part of their make-up. They work better in any water -- cut grease quicker -- and feel smoother. Our granular borax is free-flowing and 100% soluble. This material is now available to you in any of the many special uniform meshes listed at left. Samples, bulletins, or technical advice can be obtained from the sales office nearest to you. Write today!



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- NEW YORK - 50 Rockefeller Plaza, New York 20
- CALIFORNIA - 630 Shatto Place, Los Angeles 5
- ILLINOIS - 3456 Peterson Avenue, Chicago 45
- GEORGIA - 1145 Peachtree Street, Atlanta 9
- MISSOURI - 4150 Laclede Avenue, St. Louis 8
- OHIO - 5012 Euclid Avenue, Cleveland 3
- PENNSYLVANIA - 302 Wilford Bldg., Philadelphia 4

BORAX (and Boric Acid) (Contd.)

General Chemical Div., 40 Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
A. R. Maas Chemical Co., 4570 Ardine St., South Gate, Calif.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Jos Turner & Co., Ridgefield, N. J.
U. S. Borax & Chem. Corp., 50 Rockefeller Plaza, N. Y. 20
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

BORIC ACID (see above)

BOTTLE DISPENSERS (see Sprayers and Atomizers, Bottle)

BOTTLE FILLING MACHINERY (see Filling Machinery)

BOTTLE HANDLING EQUIPMENT (Unpacking, Cleaning, Drying, etc.)

Chisholm-Ryder Co., of Pa., Hanover, Pa.
Emhart Mfg. Co., Portland, Conn.
FMC Packaging Mch. Div., 4972 Summerdale Ave., Phila., Pa.
Filpaco Industries, 2464 S. Michigan Ave., Chicago
First Machy. Corp., 209 10 St., Bklyn. 15 (used)
Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh
Island Equip. Corp., 1090 E. 31st St., Hialeah, Fla.
Kartridg Pak Co., 9151 W. Fullerton Ave., Franklin Park, Ill.
Karl Kiefer Machine Co., 919 Martin St., Cincinnati
Laub Engineering Co., 244 N. San Marino Ave., San Gabriel, Calif.
M. R. M. Co., 191 Berry St., Brooklyn
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (used)
Packer Mch. Corp., 109 14th St., Bklyn.
Pneumatic Scale Corp., Quincy 71, Mass.
U. S. Bottlers Mch. Co., 4019 N. Rockwell St., Chicago
Weigh Right Auto. Scale Co., Mills Rd., Joliet, Ill.

BOTTLE SPRAYERS (see Sprayers, Bottle)

BOTTLE CLEANING MACHINERY (see Cleaning Machinery, Bottle)

BOTTLES AND JARS

Armstrong Cork Co., Lancaster, Pa.
Anchor Hocking Glass Corp., Lancaster, Ohio
Ball Brothers Co., Muncie, Ind.
Brockway Glass Co., Brockway, Pa.
Carr-Lowrey Glass Co., 2201 Kloman St., Baltimore 30
Continental Can Co., 100 E. 42nd St., N. Y. 17
Foster-Forbes Glass Co., Marion, Ind.
Knox Glass, Inc., Knox, Pa.
Maryland Glass Co., Baltimore Md.
Metro Glass Co., Jersey City, N. J.
Owens Illinois Glass Co., Toledo, O.
Thatcher Glass Mfg. Co., 375 Park Ave., N. Y. C.
Wheaton Glass Co., Milville, N. J.

BOTTLES, PLASTIC (Rigid and Squeezable)

American Agile Corp., Bedford, O.
Ball Brothers Co., Muncie, Ind.
Bradley-Sun Division, 181 Long Ave., Hillside, N. J.
Continental Can Co., 100 E. 42nd St., N. Y.
Gibbs Automatic Moulding Corp., Henderson, Ky.
Imco Container Corp., 75th & Cleveland, Kansas City, Mo.
Lawrence Plastic Container Co., 4617 Regent St., Phila., Pa.
Northwestern Bottle Co., 3144 N. Broadway, St. Louis
Plax Corp., Bloomfield, Conn.
Thatcher Glass Mfg. Co., 375 Park Ave., N. Y.
Wheaton Glass Co., Milville, N. J.

BOX LINERS (see Liners)

BOXES, (Corrugated and Fibre)

Andre Paper Box Co., 1355 Market St., San Francisco
Atlas-Boxmakers, Inc., 5025 W. 65th St., Chicago
Birmingham Paper Co., 2110 S. 5th Ave., Birmingham, Ala.
Calumet Carton Co., Homewood, Ill.
Cambridge Paper Box Co., Cambridge, Mass.
Container Corp. of Am., 38 S. Dearborn St., Chicago
Continental Can Co., 100 E. 42nd St., N. Y. 17
Essex Paper Box Mfg. Co., 281 Astor St., Newark, N. J.
Fibreboard Paper Prods. Corp., 475 Brannan St., San Francisco
Gaylord Container Corp., 111 N. 4th St., St. Louis 2
Inland Container Corp., 700 W. Morris St., Indianapolis 6

National Folding Box Co., 405 Lexington Ave., N. Y.
Owens-Illinois Glass Co., Toledo, O.
Pacific Paper Box Co., 3615 Broadway Pl., Los Angeles
Union Bag-Camp Corp., 233 Broadway, N. Y.
Stone Container Corp., 4200 W. 42nd Pl., Chgo.

BOXES (Folding)

Ace Carton Co., 5800 W. 51st St., Chicago
Acme Paper Box Co., 800 Tennessee St., San Francisco
Brooks & Porter, Inc., 304 Hudson St., New York
Berles Carton Co., 85 5th Ave., Paterson, N. J.
Bruce Carton Co., 546 Weakley Ave., Memphis, N. J.
Container Corp. of Am., 38 S. Dearborn St., Chicago
Continental Can Co., 100 E. 42nd St., N. Y. 17
Fibreboard Paper Prods. Corp., 475 Brannan St., San Francisco
Gaylord Container Corp., 111 N. 4th St., St. Louis
Gordon Cartons, Inc., 1629 Warner St., Baltimore
Ohio Boxboard Co., Rittman, O.
Old Dominion Box Co., Lynchburg, Va.
Stone Container Corp., 4200 W. 42nd Pl., Chicago

BOXES (Set-up)

Acme Paper Box Co., 800 Tennessee St., San Francisco
Container Corp. of America, 38 Dearborn St., Chicago
F. N. Burt Co., 500 Seneca St., Buffalo, N. Y.
Dennison Mfg. Co., Framingham, Mass.
Los Angeles Paper Box & Board Mills, 2615 E. 12th St., Los Angeles
Shoup-Owens, Inc., 1100 Adams St., Hoboken, N. J.
Simplex Paper Box Corp., Lancaster, Pa.
Stone Container Corp., 4200 W. 42nd Pl., Chicago
Wallace Paper Box Corp., 52-07 Flushing Ave., Maspeth, N. Y. C.

BROKERS (Chemicals)

American-British Chemical Supplies, 180 Madison Ave., N. Y. 16
John H. Calo Co., 19 Rector St., N. Y. 6
John A. Chew, Inc., 60 E. 42nd St., N. Y.
Simon Cytron Trading Co., 50 Broad St., N. Y.
Dickerson Co., Drexel Bldg., Phila.
Globe Chem. Co., Murray Rd., Cincinnati
Griffin Chem. Co., 1000 16th St., San Francisco
Otto A. C. Hagen Co., Public Ledger Bldg., Phila.
C. Lievense, 11 Broadway, N. Y. 4
P. J. Lo Bue Co., 277 Park Ave., N. Y.
Millmaster Chem. Corp., 99 Park Ave., N. Y.
Leo Pasternak, Inc., 110 William St., N. Y.
Revere Oil & Chemical Co., 60 E. 42 St., N. Y.
Riches-Nelson, Inc., 342 Madison Ave., N. Y.
G. S. Robins & Co., 126 Chouteau Ave., St. Louis 2
Robeco Chems. Inc., 23 E. 26th St., N. Y.
Schmitz-Schoenewald-Turner Co., 20 Vesey St., N. Y. 7
Siegel Chemical Co., 1 Hanson Pl., Bklyn.
George Uhe Inc., 76 9th Ave., N. Y.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

BROKERS (Oils and Fats)

Irving R. Boody Co., 120 Wall St., N. Y.
John H. Calo Co., 19 Rector St., N. Y. 6
Simon Cytron Trading Co., 50 Broad St., N. Y.
Davidson Commission Co., 327 S. La Salle St., Chicago
John W. Hall, 327 S. La Salle St., Chicago
Otto A. C. Hagan Co., Public Ledger Bldg., Phila.
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave., N. Y.
Hentz & Co., 60 Beaver St., N. Y.
Chas. Hollingshead Co., Produce Exchange, N. Y.
E. G. James Co., 316 S. La Salle St., Chicago
Marwood Co., 221 N. LaSalle, Chicago
Miller & Co., 2401 Chestnut St., Philadelphia
Rayner & Stonington, Inc., 79 Wall St., N. Y.
Revere Oil & Chemical Co., 60 E. 42 St., N. Y.
Robeco Chems., Inc., 23 E. 26th St., N. Y.
Sterne & Son Co., Board of Trade Bldg., Chicago
Weaver & Hugi, Inc., Produce Exchange Bldg., N. Y.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Wilson Brokerage, Inc., Produce Exchange, N. Y.

BULK SOAPS (see Chip Soap, Laundry Soap)

BUTANE

Matheson Co., East Rutherford, N. J.
Cities Service Oil Co., Bartlesville, Okla.
Phillips Petroleum Co., Bartlesville, Okla.

CALCIUM CARBONATE (Chalk, Marble Dust, etc.)

H. J. Baker & Bro., 271 Madison Ave., N. Y.
Harry T. Campbell Sons, Towson 4, Baltimore
Charles B. Chrystal Co., 53 Park Pl., N. Y.
Diamond Alkali Co., Union Commerce Bldg., Cleveland
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.
Tamms Industries, Inc., 228 N. La Salle St., Chicago
Whittaker, Clark & Daniels, Inc., 100 Church St., N. Y.
Witco Chem. Co., 122 E. 42nd St., N. Y. 17
Wyandotte Chemicals Corp., Wyandotte, Mich.

CALCIUM CHLORIDE

Columbia-Southern Chem. Corp., Pittsburgh
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y.
Solvay Process Div., 61 Broadway, N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Wyandotte Chemicals Corp., Wyandotte, Mich.

CALCIUM HYPOCHLORITE

Columbia-Southern Chem. Corp., Pittsburgh
General Chem. Div., 40 Rector St., N. Y. 6
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Monsanto Chemical Co., St. Louis 24, Mo.
Olin Mathieson Chem. Corp., Baltimore 3
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Jos. Turner & Co., Ridgefield, N. J.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y.
Virginia-Carolina Chem. Corp., Richmond, Va.

CALCIUM STEARATE (see Stearates)

CAMPBOR OIL (see Essential Oils)

CANDELILLA WAX (see Waxes)

CAN SPOUTS AND NOZZLES

American Can Co., 100 Park Ave., N. Y. 17
Am. Flange & Mfg. Co., 30 Rockefeller Plaza, N. Y.
Continental Can Co., 100 E. 42nd St., N. Y. 17
Eastern Can Co., Keap St. & Kent Ave., Bklyn.
George D. Ellis & Sons, 4008 North American St., Phila. 40
Rieke Metal Products Corp., Auburn, Indiana
Seal Spout Corp., 230 Sheffield Ave., Mountinside, N. J.
Standard Containers, Inc., Montclair, N. J.
Z & W Mfg. Corp., 30240 Lakeland Blvd., Wickliffe, O.

CANS (Fibre or Paper)

American Can Co., 100 Park Ave., N. Y.
Benton Fibre Drum Co., 186 Van Dyke St., Bklyn. 31
Cin-Made Corp., 800 E. Ross Ave., Cincinnati
Cleveland Container Co., 3571 W. 62 St., Cleveland
Continental Can Co., 100 E. 42nd St., N. Y.
Cross Paper Products Corp., 4377 Bronx Blvd., N. Y. 66
Fibreboard Paper Prods. Corp., 475 Brannan St., San Francisco 19
Harcord Mfg. Co., 125 Monitor St., Jersey City, N. J.
National Paper Can Co., Cudahy, Wis.
R. C. Can Co., 9430 Page Ave., St. Louis
Sealright Co., Fulton, N. Y.
Stone Container Corp., 4200 W. 42nd Pl., Chgo.
Sutherland Paper Co., Kalamazoo, Mich.

CANS (Sifter Top)

American Can Co., 100 Park Ave., N. Y. 17
Burdick & Son, 72 Hamilton St., Albany, N. Y.
Cin-Made Corp., 880 E. Ross Ave., Cincinnati
J. L. Clark Mfg. Co., Rockford, Ill.
Cleveland Container Co., 3571 W. 62 St., Cleveland
Continental Can Co., Inc., 100 E. 42nd St., N. Y.
Cross Paper Products Corp., 4377 Bronx Blvd., N. Y. 66
Eastern Can Co., Keap St. & Kent Ave., Bklyn.
Fibreboard Paper Prods. Corp., 475 Brannan St., San Francisco 19
Harcord Mfg. Co., 125 Monitor St., Jersey City, N. J.
R. C. Can Co., 9430 Page Ave., St. Louis
Scovill Mfg. Co., Waterbury, Conn.
Sefton Fibre Can Co., 3275 Big Bend Blvd., St. Louis
Stone Container Corp., 4200 W. 42nd Pl., Chgo.

CANS (Metal)

American Can Co., 100 Park Ave., N. Y.
Central Can Co., 2415 W. 9th St., Chicago
J. L. Clark Mfg. Co., Rockford, Ill.
Continental Can Co., Inc., 100 E. 42nd St., N. Y.
Crown Cork & Seal Co., 9300 Ashton Rd., Philadelphia
Eastern Can Co., Keap St. & Kent Ave., Brooklyn 11
George D. Ellis & Son, 4008 North American St., Phila. 40
Fein's Tin Can Co., Bush Terminal, Brooklyn
Geuder, Paeschke & Frey Co., 324 N. 15th St., Milwaukee, Wisc.
Heekin Can Co., 429 New St., Cincinnati 2
Inland Steel Container Co., 30 W. Monroe St., Chicago
National Can Corp., 3217 W. 47th Pl., Chicago 32
Olive Can Co., 4700 N. Oketo Ave., Chicago
Scovill Mfg. Co., Waterbury, Conn.
Southwestern Steel Container Co., 3301 S. Lamar St., Dallas
Stern Can Co., 71 Locust St., Boston 25
Vulcan Containers Ltd., Box 284, Toronto, Can.
Vulcan Containers Inc., Bellwood, Ill.
Vulcan Steel Container Co., 3315 N. 35th Ave., Birmingham, Ala.

CAP LINERS

Aluminum Prods. Corp., Fulton, N. Y.
Armstrong Cork Co., Lancaster, Pa.
Bernardin Bottle Cap Co., 2201 W. Maryland St., Evansville, Ind.
Crown Cork & Seal Co., Baltimore
Walter Frank Organization, 4100 Warren Ave., Hillside, Ill.
General Felt Prods., 68 35th St., Bklyn.
Irvington Varnish & Insulator Co., Irvington, N. J.
Reynolds Metals Co., Richmond, Va.

CAPPING MACHINERY

Anchor Hocking Glass Corp., Lancaster, O.
Builders Sheet Metal Wks., 108 Wooster St., N. Y.
Consolidated Packaging Machinery Corp., 1400 West Ave., Buffalo
Crown Cork & Seal Co., 9300 Ashton Rd., Phila. 36
Emhart Mfg. Co., Portland, Conn.
Ertel Engineering Corp., West Front St., Kingston, N. Y.
FMC Packaging Mch. Div., 4972 Summerdale Ave., Phila., Pa.
Filpaco Industries, 2464 S. Michigan Ave., Chicago
First Machy. Corp., 209 10 St., Bklyn. 15 (used)
R. G. Haskins Co., 2661 W. Harrison St., Chicago
Laub Engineering Co., 244 N. San Marino Ave., San Gabriel, Calif.
M. R. M. Co., 191 Berry St., Brooklyn
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago
PMC Industries, 293 Hudson St., Hackensack, N. J.
Pneumatic Scale Corp., Quincy 71, Mass.
Resina Automatic Mch. Co., 572 Smith St., Brooklyn
Triangle Package Machy. Co., 6643 W. Diversey Blvd., Chicago 51
Tite-Cap Machine Co., 57 Rose St., N. Y. 7
U. S. Bottlers Mch. Co., 4015 N. Rockwell St., Chicago

CAPS, (Captive Flip)

American Can Co., 100 Park Ave., N. Y. C.
Continental Can Co., 100 E. 42nd St., N. Y. C. 17

CAPS, PLASTIC

American Can Co., 100 Park Ave., N. Y. 17
Anchor Hocking Glass Corp., Lancaster, Ohio
Armstrong Cork Co., Lancaster, Pa.
Bernardin Bottle Cap Co., 2201 W. Maryland St., Evansville, Ind.
Buckeye Molding Co., Miamisburg, O.
Federal Tool Corp., 3600 W. Pratt Blvd., Chicago
Clayton Corp., 4205 Forest Park Blvd., St. Louis 8
Walter Frank Organization, 4100 Warren Ave., Hillside, N. J.
General Plastics, Inc., N. Tonawanda, N. Y.
Gibbs Automatic Molding Corp., Hendersonville, Ky.
Gibson Associates, 390 E. North Ave., Cranford, N. J.
Gilbert Plastics, Inc., Boright Ave., Kenilworth, N. J.
Mack Molding Co., Wayne, N. J.
Owens-Illinois Glass Co., Toledo, Ohio
Pennsylvania Glass Prods. Co., Pittsburgh
Plax Corp., Bloomfield, Conn.
Scott Plastics, 410 Windsor St., Hartford, Conn.
Standard Cap & Molding Co., 307 S. Eaton St., Baltimore
Wheaton Glass Co., Millville, N. J.
Wheeling Stamping Co., 2116 Water St., Wheeling, W. V.
A. H. Wirz, Inc., Chester, Pa.

Hats off to the NEW

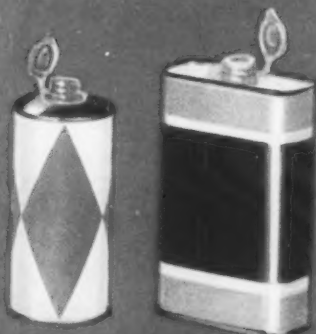
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*Patents pending.



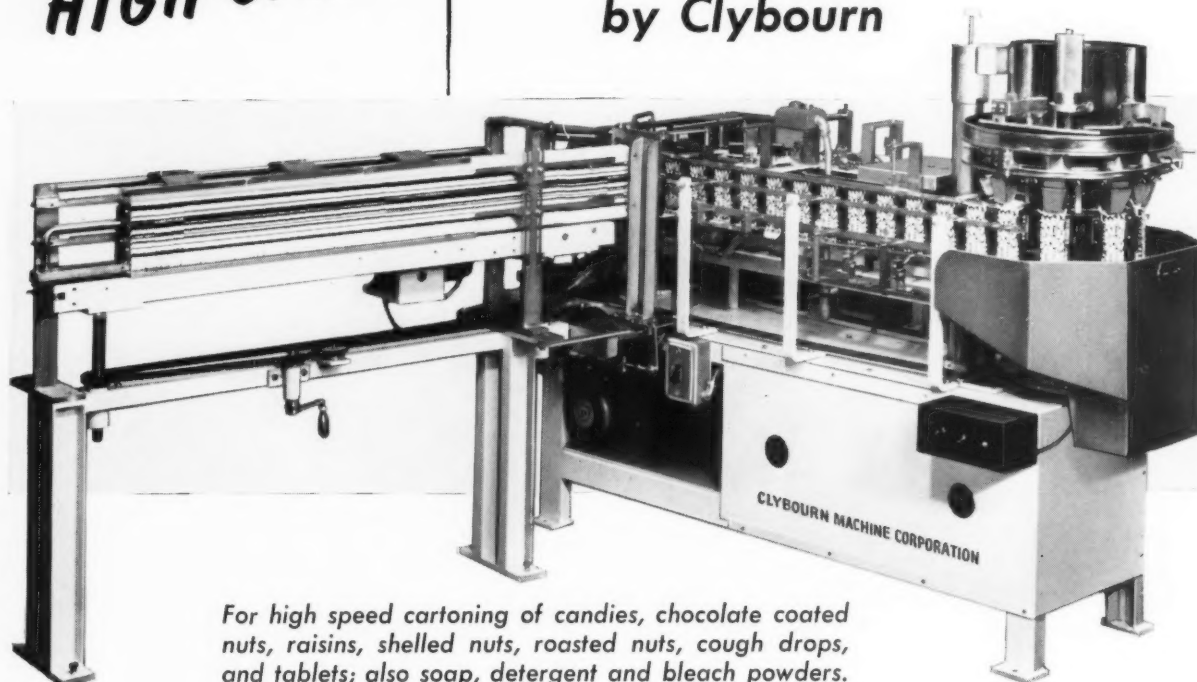
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CMC Continuous Automatic Carton Filling and Closing Machine by Clybourn



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- **200 cartons per minute**
On demonstration at 225 cartons per minute the machine opened, filled and closed 16000 cartons without error.
- **Positive filling — no bridging**
New, high speed filler design with terrific shake-down vibration assures uniform carton content.
- **New, high speed carton opening mechanism**
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- **Carton sizes to 2½ x ¾ x 5 inches high**
- **Reliability**—that users have learned to expect from the Clybourn CMC Continuous Automatic Carton Filling and Sealing machine.



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Armstrong Cork Co., Lancaster, Pa.
Ball Brothers Co., Muncie, Ind.
Bernardin Bottle Cap Co., 2201 W. Maryland St., Evansville, Ind.
Continental Can Co., 100 E. 42nd St., N. Y.
Crown Cork & Seal Co., Baltimore, Md.
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Ludwig Closures, 185 Oakland St., Brooklyn
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Owens-Illinois Glass Co., Toledo, Ohio
Penn Cap & Closures, 1155 Manhattan Ave., Brooklyn
Phoenix Metal Cap Co., 2444 W. 16th St., Chicago
Rieke Metal Prods. Co., Auburn, Ind.
Seal-Spout Corp., 230 Sheffield St., Mountainside, N. J.
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Central Solvents & Chemicals Co., 2540 W. Flournoy St., Chicago 12
Diamond Alkali Co., Union Commerce Bldg., Cleveland
Dixie Solvents & Chems. Co., Dixie Highway, Louisville, Ky.
Dow Chemical Co., Midland, Mich.
Frontier Chemical Co., Wichita, Kan.
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis 22
Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis 7, Mo.
Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland 11, Ohio
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y.
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Southern Solvents & Chemicals Corp., 917 Jefferson Highway, New Orleans 18, La.
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Jos Turner & Co., Ridgefield, N. J.
Texas Solvents & Chemicals Co., 8501 Market St., Houston 15, Texas
Toledo Sols. & Chems. Co., 4051 South Ave., Toledo, O.
Virginia-Carolina Chem. Corp., Richmond, Va.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit 11
Westvaco Chlor-Alkali Div., 161 E. 42nd St., N. Y.
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CARTON LINING MACHINES (see Lining Machinery)

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Clybourn Machine Corp., 6479 N. Avondale Ave., Chicago 31
Emhart Mfg. Co., Portland, Conn.
FMC Packaging Mch. Div., 4972 Summerdale Ave., Phila., Pa.
J. L. Ferguson Co., Joliet, Ill.
R. A. Jones & Co., Box 485, Cincinnati, Ohio
Laub Engineering Co., 244 N. San Marino Ave., San Gabriel, Calif.
John R. Nalbach Eng. Co., 6139 W. Ogden Ave., Chicago
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)
Packaging Machinery Co., East Longmeadow, Mass.

Pneumatic Scale Corp., Quincy 71, Mass.
F. B. Redington Co., 3000 St. Charles Rd., Bellwood, Ill.
Triangle Package Machinery Co., 6633 W. Diversey Blvd., Chicago 51
Weigh Right Automatic Scale Co., Mills Rd., Joliet, Ill.

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J. L. Ferguson Co., Joliet, Ill.
R. A. Jones & Co., Box 485, Cincinnati
Karl Kiefer Mach. Co., 919 Martin St., Cincinnati
Laub Engineering Co., 244 N. San Marino Ave., San Gabriel, Calif.
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
PMC Industries, 293 Hudson St., Hackensack, N. J.
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CASE SEALING MACHINERY (see Sealing Machinery)

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Borden Co., 350 Madison Ave., N. Y.
Wm. Diehl & Co., 120 E. 56 St., N. Y. 22
E. I. du Pont de Nemours & Co., Wilmington, Del.
F. H. Paul & Stein Bros., 235 5 Ave., N. Y.
Swift & Co., Chicago 9
Tamms Industries, Inc., 228 N. La Salle St., Chicago

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U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12
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J. H. Redding, Inc., 177 Battery Place, N. Y.
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.
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Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Woburn Chem. Corp., 1200 Harrison Ave., Kearny, N. J.

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Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Hooker Chemical Corp., Niagara Falls, N. Y.
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Olin Mathieson Chem. Corp., Baltimore 3
Oronite Chem. Co., 200 Bush St., San Francisco, Calif.
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Haag Laboratories, Inc., 140th & Seeley, Blue Island, Ill.
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Hysan Prods. Co., 930 W. 38th Place, Chicago
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McLaughlin, Gormley, King Co., 1715 5th St., S.E., Minneapolis, Minn.
Peck's Prod. Co., 610 E. Clarence Ave., St. Louis
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Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City, Mo.
Uncle Sam Chem. Co., 575 W. 131st St., N. Y.
Union Carbide & Chems. Co., 30 E. 42nd St., N. Y. 17
U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis
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CAUSTIC POTASH (see Potash)

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Solid . . . Standard Grade—650 lb. drums

Flake . . . Standard Grade—100 and 400 lb. drums

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Shipped in bulk and in 100 lb. paper bags

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Shipped in 25, 50, 100, and 200 lb. fiber drums

Columbia-Southern Para-Dichlorobenzene sublimes readily leaving no residue, is soluble in most organic solvents but is insoluble in water. Available in a variety of mesh sizes to meet the needs of the soap industry in the manufacture of sanitary specialties and deodorants.

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In 450 lb. drums

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Jos. Turner & Co., Ridgefield, N. J.
U. S. Industrial Chems. Co., 99 Park Ave., N. Y. 16
Velsicol Chem. Corp., 330 E. Grand Ave., Chicago
Virginia-Carolina Chem. Corp., Richmond, Va.
Westvaco Chlor-Alkali Div., 161 E. 42nd St., N. Y.
Wyandotte Chemicals Corp., Wyandotte, Mich.

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CEDARWOOD OIL (see Essential Oils)

CERESIN WAX (see Waxes)

CETYL ALCOHOL (see Fatty Alcohols)

CHALK (see Calcium Carbonate)

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Blockson Chemical Co., Joliet, Ill.
Chemo Puro Mfg. Co., 60 E. 42 St., N. Y. C.
Dawes Laboratories, 4800 S. Richmond St., Chicago 32
Dow Chem. Co., Midland, Mich.
E. F. Drew & Co., Boonton, N. J.
E. I. du Pont de Nemours & Co., Wilmington
Emkay Chem. Co., Elizabeth 1, N. J.
Geigy Industrial Chemicals, Ardsley, N. Y.
Glyco Chemicals Div., 417 5th Ave., N. Y.
Hampshire Chem. Corp., Nashua, N. H.
A. R. Maas Chem. Co., 4570 Ardine St., South Gate, Calif.
M. Michel & Co., 90 Broad St., N. Y.
Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.
Monsanto Chemical Co., St. Louis 24, Mo.
Pfanstehl Laboratories, 104 Lake View Ave., Waukegan, Ill.
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn.
Reading Testing Laboratories, 1145 N. Mill St., Reading, Pa.
Refined Prods. Corp., 624 Schuyler Ave., Lyndhurst, N. J.
Rumford Chem. Wks., Rumford, R. I.
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
Tanatex Chem. Corp., Belleville Turnpike, Kearny, N. J.
Victor Chem. Wks., 155 N. Wacker Drive, Chicago
Westvaco Mineral Prods. Div., 161 E. 42nd St., N. Y.
Wilson-Martin Div., Snyder & Swanson St., Phila.

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Lukens Steel Co., Coatsville, Pa.
Meccaniche Moderne, Corso Sempione, 51 Busto Arsizio, Italy
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
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...the sensational new six point Chlordane plan for extra insecticide profits!



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The 1960 Chlordane consumer advertising program will appear in more magazines, newspapers, and markets than ever before.

FORMULATORS AND DISTRIBUTORS!

MAKE SURE YOUR SALESMEN

AND DEALERS KNOW
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Please send details of the new 1960 CHLORDANE "OFF THE SHELF" program for my dealers! Also send information on the special new Chlordane incentive program for formulator and distributor salesmen.

Name

Store

Address

City

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DuBois Co., Cincinnati
East Coast Soap Corp., 89 Coffey St., Bklyn. 31
Essential Chemicals Co., 5906 N. Port Washington Rd., Milwaukee
Hewitt Soap Co., Dayton, Ohio
R. M. Hollingshead Corp., Camden, N. J.
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C., N. Y.
Lever Bros. Co., 390 Park Ave., N. Y.
Los Angeles Soap Co., Los Angeles, Calif.
National Milling & Chem. Co., 4601 Flat Rock Rd., Phila. 27
National Soap Co., 357 South 25th St., Tacoma, Wash.
Original Bradford Soap Wks., West Warwick, R. I.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Procter & Gamble Distributing Co., Cincinnati
Standard Soap Co. Div., 205 S. 2nd St., Camden 1, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Theobald Industries, P. O. Box 72, Harrison, N. J.

CHLORDANE (Technical)

Velsicol Chemical Corp., 330 E. Grand Ave., Chicago

CHLORDANE FORMULATIONS

ABC Compounding Co., Oakcliff & Harwell Rds., SW, Atlanta, Ga.
A-M-R Chemical Co., 958 E. 35th St., Bklyn. 10
B&W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Baird & McGuire, Inc., Holbrook, Mass.
Barnett Chemical Products Co., 326 Lafayette Bldg., Phila. 6
California Spray-Chemical Corp., Richmond, Calif.
Chem. Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Concord Chem. Co., 205 S. 2nd St., Camden, N. J.
Diamond Alkali Co., Union Commerce Bldg., Cleveland
Dow Chemical Co., Midland, Mich.
Douglas Chem. Co., 620 E. 16th Ave., N. Kansas City, Mo.
E. I. du Pont de Nemours & Co., Wilmington
Frontier Chem. Prods., Inc., 119 E. Soper St., St. Louis
Fuld Bros., 702 S. Wolfe St., Baltimore 31
General Chemical Division, 40 Rector St., N. Y.
Hub States Chems. & Equipment, 1255 N. Winsor St., Indianapolis
Hysan Products Co., 936 W. 38th Pl., Chicago
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
McLaughlin, Gormley, King Co., 1715 5th St., S.E., Minneapolis
Michigan Chemical Corp., St. Louis, Mich.
Midland Laboratories, 210 Jones St., Dubuque, Iowa
Miller Products Co., 1932 S. W. Water Ave., Portland, Ore.
Ottawa Chem. Co., 823 Hamilton St., Toledo, O.
S. B. Penick & Co., 100 Church St., New York
Pittsburgh Coke & Chem. Co., 2000 Grand Bldg., Pittsburgh
Puro Co., 2801 Locust St., St. Louis 3
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.
J. W. Quinn Drug Co., Greenwood, Miss.
Residex Corp., 1500 W. Elizabeth Ave., Linden, N. J.
Sprayway, Inc., 7640 Vincennes Ave., Chgo.
Stauffer Chemical Co., 380 Madison Ave., N. Y.
Tesco Chemicals, Inc., Atlanta 5, Ga.
Trio Chemical Wks., 341 Scholes St., Bklyn 6
Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City, Mo.
Uncle Sam Chem. Co., 575 W. 31st St., N. Y. 27
United-Heckathorn, 600 S. 4 St., Richmond, Calif.
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago
James Varley & Sons, 1200 Switzer Ave., St. Louis 15
Velsicol Chem. Corp., 330 E. Grand Ave., Chicago
Warsaw Chem. Co., Warsaw, Ind.
York Chem. Co., 23 Dean St., Bklyn. 1

CHLORIDE OF LIME (see Bleaching Powder)

CHLORINE

Arkansas Louisiana Chem. Co., Shreveport, La.
Columbia-Southern Chem. Corp., Pittsburgh
Diamond Alkali Co., Union Commerce Bldg., Cleveland
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington
Frontier Chemical Co., Wichita, Kan.
Hooker Chemical Corp., Union St., Niagara Falls, N. Y.
Monsanto Chemical Co., St. Louis 24, Mo.

Olin Mathieson Chem. Corp., Baltimore 3
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Solvay Process Div., 61 Broadway, N. Y.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
U. S. Industrial Chems. Co., 99 Park Ave., N. Y. 16
Velsicol Chem. Corp., 330 E. Grand Ave., Chicago
Virginia-Carolina Chem. Corp., Richmond 5, Va.
Westvaco Chlor-Alkali Div., 161 E. 42nd St., N. Y.
Wyandotte Chemicals Corp., Wyandotte, Mich.

CHLORINE DIOXIDE

Hooker Chemical Corp., Niagara Falls, N. Y.
Olin Mathieson Chem. Corp., Baltimore 3
Solvay Process Div., 61 Broadway, N. Y. C.

CHLORINE DISINFECTANTS (see Disinfectants)

CHLOROFORM

Diamond Alkali Co., Union Commerce Bldg., Cleveland 14
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington
Frontier Chem. Co., Wichita, Kan.
Kolker Chem. Corp., 600 Doremus Ave., Newark, N. J.
Mallinckrodt Chem. Works, St. Louis
Merck & Co., Rahway, N. J.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Solvay Process Div., 61 Broadway, N. Y.

CHLOROPHYLL

Aceto Chem. Co., 40-40 Lawrence St., Flushing, N. Y.
American Chlorophyll, Lake Wales, Fla.
Florsayth Laboratories, Inc., 900 Van Nest Ave., N. Y.
Fritzsche Bros., 76 Ninth Ave., N. Y. 11
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.
Leeben Color & Chem. Co., 103 Lafayette St., N. Y. 13
Merck & Co., Rahway, N. J.
S. B. Penick & Co., 100 Church St., N. Y.
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1
Schimmel & Co., 601 W. 26th St., N. Y.

CHLOROSULFONIC ACID (see Acids)

CHROMIC ACID

Diamond Alkali Co., Union Commerce Bldg., Cleveland
Harshaw Chem. Co., 1945 E. 97 St., Cleveland
Mallinckrodt Chemical Wks., St. Louis 7
McGean Chemical Co., Midland Bldg., Cleveland 15
Solvay Process Div., 61 Broadway, N. Y. 6

CITRAL (see Aromatic Chemicals)

CITRIC ACID

Mallinckrodt Chem. Wks., St. Louis 7
Merck & Co., Rahway, N. J.
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn. 6
S. B. Penick & Co., NYQ Chem. Div., 100 Church St., N. Y. 8
Robeco Chems. Inc., 25 E. 26th St., N. Y. 10

CITRONELLA (see Aromatic Chemicals)

CITRONELLA OIL (see Essential Oils)

CITRONELLOL (see Aromatic Chemicals)

CLAD EQUIPMENT, Stainless Steel, Nickel, Monel, etc.

J. H. Day Co., Cincinnati 12
Edge Moor Iron Wks., Edge Moor, Del.
Houchin Div., 300 Straight St., Paterson, N. J.
International Nickel Co., 67 Wall St., N. Y.
Littleford Bros., 453 E. Pearl St., Cincinnati
Patterson Kelley Co., East Stroudsburg, Pa.
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh
Read-Standard Corp., York, Pa.
F. J. Stokes Machine Co., Philadelphia
Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chicago
Young Machinery Co., Muncy, Pa.

CLAD STEEL (stainless steel plates, etc., for fabricating tanks, vats, kettles, drying towers, etc.)

Bethlehem Steel Co., Bethlehem, Pa.
Colorado Fuel & Iron Corp., 575 Madison Ave., N. Y. 22
Lukens Steel Corp., Coatsville, Pa.
Republic Steel Co., Cleveland
U. S. Steel Corp., Pittsburgh, Pa.

CLAYS

American Colloid Co., 5100 Suffield Ct., Skokie, Ill.
California Industrial Minerals Co., Friant, Calif.
Carolina Pyrophyllite Co., 10 E. 40th St., N. Y. 16
Charles B. Chrystal Co., 53 Park Pl., N. Y.
Dicalite Div., 612 S. Flower St., Los Angeles, Calif.
Filtrol Corp., 3250 E. Washington Blvd., Los Angeles
Johns-Manville Prods. Corp., 22 E. 40th St., N. Y.
Georgia Kaolin Co., 511 Westminster Ave., Elizabeth, N. J.
J. M. Huber Corp., 630 3rd Ave., N. Y. 17
Minerals & Chems. Corp. of America, Menlo Park, N. J.
Peerless Clay & Mineral Co., Pueblo, Colo.
L. A. Salomon & Bro. 216 Pearl St., N. Y.
F. E. Schundler & Co., Joliet, Ill.
Southeastern Clay Co., Aiken, S. C.
Tamms Industries, Inc., 228 N. LaSalle St., Chicago
United Clay Mines Corp., 101 Oakland St., Trenton, N. J.
R. T. Vanderbilt Co., 230 Park Ave., N. Y.
Charles A. Wagner Co., 4455 N. 6th St., Phila.
Whittaker, Clark & Daniels, 100 Church St., N. Y.
Witco Chemical Co., 122 E. 42nd St., N. Y.
Wyodak Chem. Co., 4600 E. 71st St., Cleveland

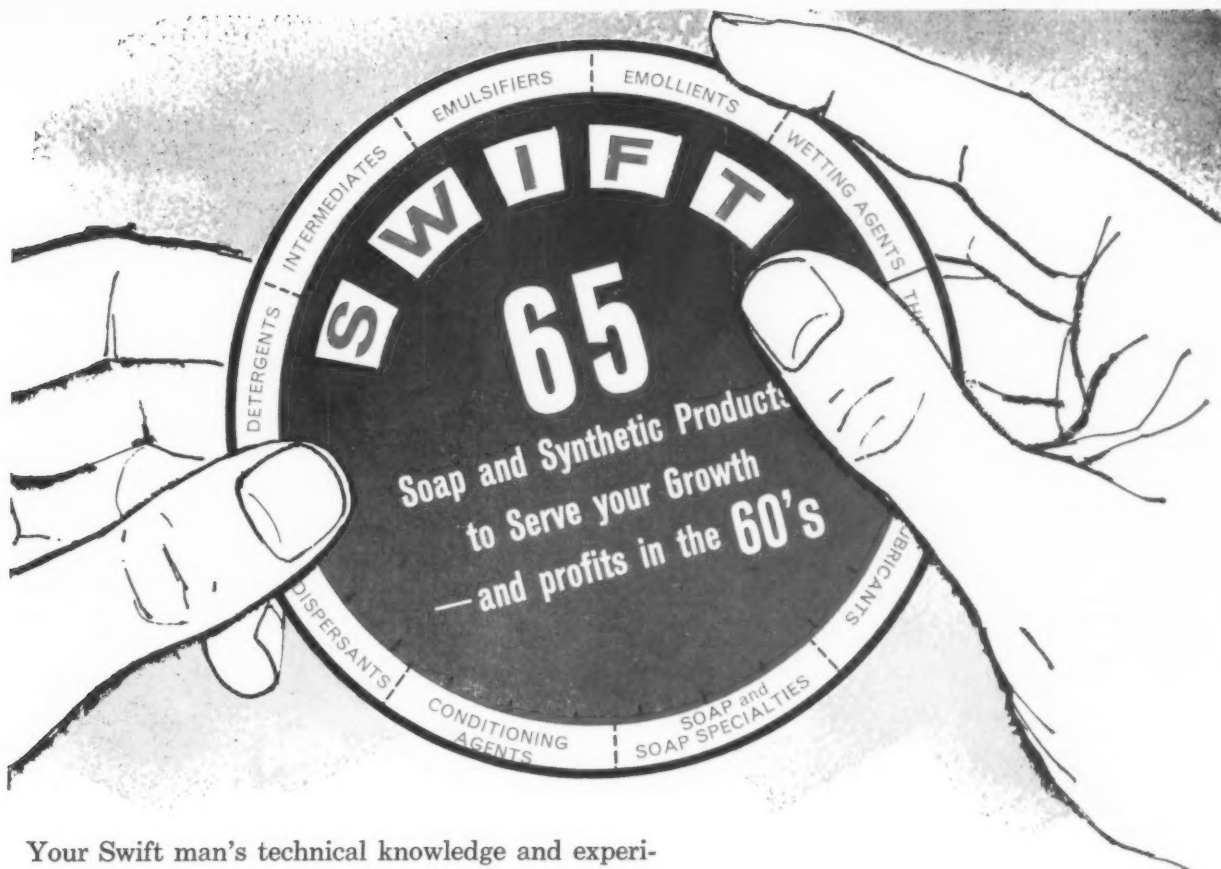
CLEANERS, LIQUID (see also Potash Soaps, also Cleaning Fluids)

ABC Compounding Co., Oakcliff & Harwell Rds., S.W., Atlanta, Ga.
American Alcolac Corp., 3440 Fairfield Rd., Baltimore 26
A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18
Armour & Co., 1355 W. 31st St., Chicago 9
B & W Chemical Co., 25920 Belleporte, Harbor City, Calif.
Baird & McGuire, Inc., Holbrook, Mass.
Betco Corp., 830 Elysian Ave., Toledo, O.
Bixon Chem. Corp., 1163 Southern Blvd., N. Y. 59
Britex Corp., 17 Lewis Wharf, Boston
Buckingham Wax Co., 5103 Van Dam St., L. I. City, N. Y.
Candy & Co., 2515 W. 35th St., Chicago 32
Chemical Service of Baltimore, Howard & West Sts., Baltimore 30
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Clarkson Laboratories, 920 Darien St., Philadelphia
Continental Chemical Co., 195 21st Ave., Paterson, N. J.
Davies-Young Soap Co., Dayton, Ohio
Drackett Co., 5020 Spring Grove, Cincinnati 32
E. F. Drew & Co., Boonton, N. J.
East Coast Soap Corp., 89 Coffey St., Bklyn. 31
Emulso Corp., 301 Ellicott St., Buffalo, N. Y.
Essential Chem. Co., 5906 N. Port Washington Rd., Milwaukee
Federal Varnish Div., 2841 S. Ashland Ave., Chicago
Franklin Research Co., 5134 Lancaster Ave., Phila., Pa.
Freesmeier Laboratories, 3661 Windsor Pl., St. Louis 18
Frontier Chem. Prods., 119 E. Soper St., St. Louis
Fuld Bros., 702 So. Wolfe St., Baltimore
Gaylord Chem. Co., 701 Woodsweather Rd., Kansas City
Geigy Industrial Chemicals, Ardsley, N. Y.
James Good, Inc., 2107 Susquehanna Ave., Phila.
Haag Laboratories, Inc., 14000 S. Seely Ave., Blue Island, Ill.
Harley Soap Co., Pierce & Orthodox Sts., Phila.
Higley Chemical Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
Hysan Prods. Co., 930 W. 38th Place, Chicago
Industrial Materials Co., 1017 McCall St., Houston
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Jones-Hamilton Co., 455 Wells Ave., Newark, Calif.
Klenzade Prods., Inc., Beloit, Wisc.
Klix Chem Co., 551 Railroad Ave., South San Francisco, Calif.
Los Angeles Soap Co., 617 E. 1st St., Los Angeles
M. & H. Laboratories, 2703 Archer Ave., Chicago
M. Michel & Co., 90 Broad St., N. Y.
Midland Labs., Dubuque, Iowa
Miranol Chem. Co., 277 Coit St., Irvington, N. J.
National Aniline Div., 40 Rector St., N. Y.
National Chemical Laboratories, 825 Lombard St., Phila.
National Laboratories, Inc., 4934 Lewis Ave., Toledo, O.
National Milling & Chem. Co., 4601 Flat Rock Rd., Phila. 27
National Research & Chem. Co., 12520 Cerise Ave., Hawthorne, Calif.
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.

Nopco Chemical Co., 60 Park Pl., Newark 1, N. J.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City, N. J.
Ottawa Chem. Co., 823 Hamilton St., Toledo, O.
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Perrow Chemical Co., Hurt, Va.
Philadelphia Quartz Co., Public Ledger Bldg., Phila.
Pilot Chemical of Cal., 215 W. 7th St., Los Angeles 14
Procter & Gamble Dist. Co., Cincinnati 1
Porex Corp., 9300 Rayo Ave., South Gate, Calif.
Puro Co., 2801 Locust St., St. Louis, Mo.
Reily Chemical Co., P. O. Box 59, New Orleans
S. & S. Soap Co., 815 E. 135th St., N. Y., 54
Sanders Chem. Co., 2205 N. American St., Phila. 33
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
Simoniz Co., 2100 Indiana Ave., Chicago 16
Solvay Process Div., 61 Broadway, N. Y. 6
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Stanalchem Inc., 350 Madison Ave., N. Y. 17
Standard Soap Co., 205 S. 2nd St., Camden 1, N. J.
John C. Stalfort & Sons, 319 W. Pratt St., Baltimore
John T. Stanley Co., 642 W. 30th St., N. Y.
Stepan Chem. Co., 427 W. Randolph St., Chicago
Surety Laboratories, 3946 Olive St., St. Louis 8
Swift & Co., Chicago 9
Tex-ite Prods. Corp., 859 E. 43 St., Brooklyn 10
Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City, Mo.
Treprow Chemical Co., 59 Camden St., Paterson, N. J.
Trio Chem. Wks., 341 Scholes St., Bklyn.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Uncle Sam Chemical Co., 573 W. 131st St., New York City
U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis
Veneer-O-Wax Corp., 2010-12 E. Fletcher St., Phila. 25
Westvaco Chlor-Alkali Div., 161 E. 42nd St., N. Y.
Roy Wilson Mfg. Co., 2541 Archer Ave., Chicago 8
Windsor Wax Co., 611 Newark St., Hoboken, N. J.
Witco Chem. Co., 122 E. 42nd St., N. Y.
Wyandotte Chemicals Corp., Wyandotte, Mich.

CLEANING COMPOUNDS, DRY

ABC Compounding Co., Oakcliff & Harwell Rds., S.W., Atlanta, Ga.
Almo Laboratories Co., 424 Madison Ave., N. Y. 17
Armour & Co., 1355 W. 31st St., Chicago
B & W Chemical Co., 25920 Belle Porte, Harbor City, Calif.
Baird & McGuire, Inc., Holbrook, Mass.
Baums Castorine Co., 200 Mathew St., Rome, N. Y.
Beach Soap Co., Lawrence, Mass.
Bonewitz Chemicals, Inc., Burlington, La.
Brilco Laboratories, 1553 63rd St., Brooklyn, N. Y.
Britex Corp., 17 Lewis Wharf, Boston
Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Clarkson Laboratories, 920 N. Darien St., Phila. 23
Click Chemical Corp., Columbia & Carleton Ave., Mt. Vernon, N. Y.
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Columbia-Southern Chem. Corp., Pittsburgh
Continental Oil Co., 1270 Av. of Americas, N. Y. 20
Cowles Chemical Co., 7016 Euclid Ave., Cleveland, Ohio
Davies-Young Soap Co., Dayton, O.
East Coast Soap Corp., 89 Coffey St., Bklyn. 31
Emeryville Chem. Co., 405 Montgomery St., San Francisco
Emulso Corp., 301 Ellicott St., Buffalo, N. Y.
Essential Chem. Co., 5906 N. Port Washington Rd., Milw.
Freesmeier Laboratories, 3661 Windsor Pl., St. Louis 13
Frontier Chem. Prods. Co., 119 E. Soper St., St. Louis
Geigy Industrial Chemicals, Ardsley, N. Y.
Gaylord Chem. Co., 701 Woodsweather Rd., Kansas City
James Good, Inc., 2107 Susquehanna Ave., Phila.
Harley Soap Co., Pearce & Orthodox Sts., Phila. 37
Help, Inc., 122 W. Kinzie St., Chicago
Higley Chemical Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
Hunnewell Soap Co., 114 W. 2nd St., Cincinnati
Hunt Mfg. Co., Lisbon Rd., Cleveland
Hysan Prods. Co., 930 W. 38th Place, Chicago
Industrial Materials Co., 1017 McCall St., Houston
J. Chemical Works Co., 602 W. 37th St., N. Y. 18
Jones-Hamilton Co., 455 Wells Ave., Newark, Calif.
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C., N. Y.
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Klenzade Prods., Inc., Beloit, Wisc.
Klix Chem. Co., 551 Railroad Ave., South San Francisco, Calif.



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1373 E. Moorehead St.
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Swift & Co., Soap Dept.
c/o Continental Carriers, Inc.
311 Foundry St., N. W.
Atlanta 3, Ga.

Swift & Co., Soap Dept.
165 Gore St.
E. Cambridge 41, Mass.

Swift & Co., Soap Dept.
Union Stock Yards—
3241 W. 65th St.
Cleveland 2, Ohio

Swift & Co., Soap Dept.
1215 Harrison Ave.
Kearny, New Jersey

Swift & Co., Soap Dept.
Girard Ave. Mkt.
9th Girard Ave.
Philadelphia 23, Pa.

Swift & Co., Soap Dept.
3760 Jewel Ave.
Los Angeles 54, Calif.

Swift & Co., Soap Dept.
National Stock Yards
E. St. Louis, Ill.

Swift & Co., Soap Dept.
309 Anderson St.
N. S. Pittsburgh 12, Pa.

Swift & Co., General Soap Dept.
Union Stock Yards
Chicago 9, Illinois

Swift Canadian Co., Ltd.,
Soap Dept.
1960 St. Clair Ave., West
Toronto 9, Ontario, Canada

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QUANTITY: 200 lbs. to carloads

CLEANING COMPOUNDS, DRY (Contd.)

H. Kohnstamm & Co., 161 6th Ave., N. Y.
Los Angeles Soap Co., Los Angeles, Calif.
M. Michel & Co., 90 Broad St., N. Y.
Midland Labs., Dubuque, Iowa
National Milling & Chem. Co., 4601 Flat Rock Rd., Phila. 27
National Research & Chem. Co., 12520 Cerise Ave., Hawthorne, Calif.
North-Coast Soap & Chem. Wks., Seattle, Wash.
Onyx Oil & Chem. Co., Warren & Norris Sts., Jersey City, N. J.
Oronite Chem. Co., 200 Bush St., San Francisco
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10
J. C. Paul & Co., 8140 N. Ridgeway Ave., Skokie, Ill.
Peck's Prod. Co., 610 E. Clarence Ave., St. Louis
Peerless Chem. Co., 1300-02 N. Fulton Ave., Baltimore
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Philadelphia Quartz Co., Public Ledger Bldg., Independence Sq., Phila. 6
Pilot Chemical Co. of Cal., 215 W. 7th St., Los Angeles 14
Port Huron Detergent Co., Port Huron, Mich.
Procter & Gamble Distributing Co., Cincinnati
Puro Co., 2801 Locust St., St. Louis, Mo.
Purex Corp., 9300 Rayo Ave., South Gate, Calif.
Rochester Sanitary Prods. Co., 846 Exchange St., Rochester, N. Y.
Rumford Chem. Wks., Rumford 16, R. I.
Sanders Chem. Co., 2205 N. American St., Phila. 33
Solvay Process Div., 61 Broadway, N. Y.
S. & S. Soap Co., 815 E. 13th St., N. Y. 54
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Stanalchem Inc., 350 Madison Ave., N.Y. 17
Standard Soap Co., 205 S. 2nd St., Camden 1, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Sugar Beet Prods. Co., Saginaw, Mich.
Swift & Co., Chicago 9
Tesco Chemicals, Inc., Atlanta 5, Ga.
Tex-ite Prods. Corp., 859 E. 43 St., Brooklyn 10
Thompson-Hayward Chem. Co., 2915 Southwest Blvd., Kansas City, Mo.
Treplow Chemical Co., 59 Camden St., Paterson, N. J.
Trio Chem. Wks., 341 Scholes St., Bklyn.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis
Virginia-Carolina Chem. Corp., Richmond 5, Va.
Warsaw Chem. Co., Warsaw, Ind.
Westvaco Mineral Prods. Div., 161 E. 42nd St., N. Y. 17
Wyandotte Chemicals Corp., Wyandotte, Mich.

CLEANING FLUIDS (Spotting Fluids)

Amoco Chems. Corp., 910 S. Michigan Ave., Chicago
A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18
Amsco Solvents & Chems. Co., 4617 Reading Rd., Cincinnati
Anderson-Prichard Oil Corp., 1000 Liberty Bank Bldg., Okla. City, Okla.
Atlantic Refining Co., 260 South Broad St., Phila.
C. P. Baker & Co., 501 N. 11th St., Phila. 23
B & W Chemical Co., 25920 Belle Porte, Harbor City, Calif.
Baums Castorine Co., 200 Mathew St., Rome, N. Y.
Britex Corp., 17-18 Lewis Wharf, Boston 10
Buckingham Wax Co., 51-03 Van Dam St., L. I. C., N. Y.
Buffalo Solvents & Chem. Corp., P. O. #73, Sta. B, Buffalo, N. Y.
Central Solv. & Chem. Co., 2540 W. Flournoy St., Chicago
Chem. Compounding Corp., 262 Huron St., Bklyn.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Clarkson Laboratories, 920 N. Darien St., Phila. 23
Davies-Young Soap Co., Dayton, O.
Dixie Solvents & Chems. Co., Dixie Highway, Louisville
Dow Chem. Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington
Eastern States Pet. & Chem. Corp., Houston 12, Tex.
Emkay Chemical Co., Elizabeth 1, N. J.
Fuld Bros., 702 S. Wolfe St., Baltimore 31
Fine Organics, Inc., 205 Main St., Lodi, N. J.
Higley Chem. Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
Hoosier Sols. & Chem. Corp., 1650 Luett Ave., Indianapolis
James Huggins & Son, 239 Medford St., Malden, Mass.
Hysan Prods. Co., 930 W. 38th Place, Chicago
Jefferson Chem. Co., 1121 Walker Ave., Houston, Tex.
Klix Chemical Co., 551 Railroad Ave., S. San Francisco
Missouri Sols. & Chems. Co., 419 DeSoto Ave., St. Louis
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Puro Co., 2801 Locust St., St. Louis 3
Ohio Sols. & Chems. Co., 3470 W. 140th St., Cleveland
Pennsalt Chems. Corp., 3 Penn Center, Phila. 2
Pennsylvania Refining Co., Butler, Pa.

Products Packaging, Inc., 6400 Herman Ave., Cleveland 2
Sandoz Inc., 61 Van Dam St., N. Y. 13
Sonneborn Chemical & Refining Corp., 300 4th Ave., N. Y. 10
Southern Sols. & Chems. Corp., 917 Jefferson Hgwy., New Orleans
Standard Oil Co., (Calif.), 225 Bush St., San Francisco
Standard Soap Co., 205 S. 2nd St., Camden 1, N. J.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Texas Sols. & Chems. Co., 8501 Market St., Houston
Toledo Sols. & Chems. Co., 4501 South Ave., Toledo, O.
Western Sols. & Chems. Co., 6472 Solkiak Ave., Detroit
Treplow Chemical Co., 59 Camden St., Paterson, N. J.
Trio Chem. Wks., 341 Scholes St., Bklyn.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17
Wolverine Solvents & Chems. Co., 1500 Century Ave. SW, Grand Rapids
Westvaco Chlor-Alkali Div., 161 E. 42nd St., N. Y.
Wilco Co., 4425 Bandini Blvd., Los Angeles 23
Wisconsin Sols. & Chems. Corp., 1719 S. 83rd St., Milwaukee
Witco Chem. Co., 122 E. 42nd St., N. Y.

CLEANING MACHINERY (for Bottles and Jars)

Alsop Engineering Corp., Milldale, Conn.
Arenco Mach. Co., 25 W. 43rd St., N. Y. 18
Chisholm-Ryder Co., Hanover, Penna.
Consolidated Package Machy. Corp., 1400 West Ave., Buffalo, N. Y.
Kartridge Pak Co., 9151 W. Fullerton Ave., Franklin Park, Ill.
Karl Kiefer Mach. Co., 919 Martin St., Cincinnati
M.R.M. Co., 191 Berry St., Bklyn. 11
Packer Mach. Corp., 109 14th St., Bklyn.
Pneumatic Scale Corp., Quincy 71, Mass.
U. S. Bottlers Machy. Co., 4019 N. Rockwell St., Chicago

CLIPS (for collapsible Tubes) (see also Tubes, Collapsible)

Arthur Colton Co., 3426 E. Lafayette Ave., Detroit
Standard Spec. & Tube Co., New Brighton, Pa.

CLOSURE LINERS (see Cap Liners)

CLOSURES (see Caps)

COAL TAR DISINFECTANTS (see Disinfectants, Coal Tar)

COAL TAR RAW MATERIALS (Cresols, Creosote Oil, Cresylic Acid, etc.)

American-British Chem. Supplies, 180 Madison Ave., N. Y. 16
Baird & McGuire, Inc., Holbrook, Mass.
Concord Chem. Co., 250 S. 2nd St., Camden 1, N. J.
Jones & Laughlin Steel Corp., 3 Gateway Center, Pittsburgh
Koppers Co., Pittsburgh 19
Monsanto Chemical Co., St. Louis
Penna. Industrial Chem. Corp., Clairton, Pa.
Plastic & Coal Chem. Div., 40 Rector St., N. Y. 6
Reilly Tar & Chemical Co., Merchant Bank Bldg., Indianapolis
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Tar Residuals, Inc., 420 Lexington Ave., N. Y. 17
U. S. Steel Corp., Pittsburgh, Pa.
James Varley & Sons, 1200 Switzer Ave., St. Louis

COCOA BUTTER

Biddle Sawyer Corp., 20 Vesey St., N. Y. 7
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y. 20
Orbis Products Corp., 601 W. 26th St., N. Y.
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10
Woodward & Dickerson, Inc., Philadelphia 2

COCONUT OIL

Balfour, Guthrie & Co., 67 Wells St., N. Y.
Brazilian Industrial Oils, 75 West St., N. Y.
Capitol City Products Co., 525 W. 1st Ave., Columbus, O.
T. G. Cooper & Co., Cedar & Venango Sts., Phila. 34
Geo. Degen & Co., 111 Broadway, N. Y.
Eastern Industries, Inc., Ridgefield, N. J.
Foremost Food & Chem. Co., Oakland, Calif.
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave., N. Y. 17

Pacific Veg. Oil Corp., 1145 S. 10th St., Richmond, Calif.
 J. H. Redding Co., 17 Battery Pl., N. Y.
 Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10
 Swift & Co., Hammond, Ind.
 Jos. Turner & Co., Ridgefield, N. J.
 Vegetable Oil Prods., 5568 E. 61st St., Los Angeles
 Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
 Woburn Chem. Corp., 1200 Harrison Ave., Kearny, N. J.

COCONUT OIL FATTY ACIDS

Acme-Hardesty Co., 60 W. 42nd St., N. Y. C.
 Amato Agency, Inc., 11 Broadway, N. Y. 4
 Archer-Daniels Midland Co., Minneapolis 2
 Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
 Capitol City Prods. Co., 525 W. 1st St., Columbus, O.
 Concord Chemical Co., 205 S. 2nd St., Camden, N. J.
 Darling & Co., 4201 S. Ashland Ave., Chicago 9
 Emery Industries, Carew Tower, Cincinnati 2
 Foremost Food & Chem. Co., Oakland, Calif.
 A. Gross & Co., 295 Madison Ave., N. Y. 17
 Harchem Div., 25 Main St., Belleville 9, N. J.
 M. Michel & Co., 90 Broad St., N. Y. 4
 Onyx Oil & Chem. Co., Warren & Norris Sts., Jersey City, N. J.
 Pacific Veg. Oil Corp., 1145 S. 10 St., Richmond, Calif.
 Swift & Co., Hammond, Ind.
 Vegetable Oil Prods., 5568 E. 61st St., Los Angeles
 Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
 Wilson-Martin Division, Snyder & Swanson, Phila.
 Woburn Chem. Co., 1200 Harrison Ave., Kearny, N. J.
 G. S. Ziegler & Co., Great Neck, N. Y.

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COCONUT OIL SHAMPOO BASE (see Shampoo Base and Potash Soaps)

COCONUT OIL POWDERED SOAPS (see Soaps, Powdered)

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 Bell-Mark Corp., 18 Ropes Pl., Newark, N. J.
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 John R. Nalbach Eng. Co., 6139 W. Ogden Ave., Chicago
 Weber Addressing Machine Co., Mt. Prospect, Ill.

COLLOID MILLS (Homogenizing Equipment)

Chemicolloid Laboratories, 55 Herricks Rd., Garden City, N. Y.
 J. H. Day Co., 4932 Beech St., Cincinnati
 Filpaco Industries, 2464 S. Michigan Ave., Chicago
 First Machy. Corp., 209 10 St., Brooklyn 15 (Used)
 Gifford-Wood Co., 420 Lexington Ave., N. Y. C.
 Laub Engineering Co., 244 N. San Marino Ave., San Gabriel, Cal. (Used)
 Manton-Gaulin Mfg. Co., Everett, Mass.
 Kinectic Dispersion Corp., Buffalo 16, N. Y.
 Newman Tallow & Soap Mach. Co., 3601 S. Iron St., Chicago (Used)
 Premier Mill Corp., 224 5th Ave., NYC 1
 Franklin P. Miller & Son, 31 Meadow St., East Orange, N. J.
 Skinner Engine Co., 337 W. 12 St., Erie, Pa.
 Tri-Homo Corp., 90 Highland Ave., Salem, Mass.

COLORS (Dyes for soaps, sprays, sweeping compounds, etc.)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
 Ansbacher-Siegle Corp., Rosebank, Staten Island, N. Y.
 Ciba Co., Fair Lawn, N. J.
 Crescent Chem. Co., 77-44 164 St., Flushing, N. Y.
 E. I. du Pont de Nemours & Co., Wilmington, Del.
 Dye Specialties, Inc., 26 Journal Sq., Jersey City 6, N. J.
 Fallek Prods. Co., 165 Broadway, N. Y. 6
 Fezandie & Sperrie, 205 Fulton St., N. Y.
 Geigy Chemical Corp., Ardsley, N. Y.
 General Dyestuff Co., 435 Hudson St., N. Y.
 Hilton-Davis Chem. Co., 2235 Langdon Farm Rd., Cincinnati
 L&R Organic Prods. Co., 50 White St., N. Y. 13
 Leebe Color & Chem. Co., 103 Lafayette St., N. Y. 13
 H. Kohnstamm & Co., 161 6th Ave., N. Y.
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Ansbacher-Siegle Corp., Rosebank, Staten Island, N. Y.
Fezandie & Sperrle, 205 Fulton St., New York
Geigy Chemical Corp., Ardsley, N. Y.
H. Kohnstamm & Co., 161 6th Ave., New York
Leeben Color & Chem. Co., 103 Lafayette St., N. Y. 13
National Aniline Div., 40 Rector St., N. Y.
Pylam Prods., Co., 799 Greenwich St., N. Y. 14
Sterwin Chemicals, Inc., 1450 Broadway, N. Y. 18
Whittaker, Clark & Daniels, 100 Church St., N. Y.

COMPLEXING AGENTS (see Sequestering Agents)

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Bennett-Rosendahl Co., 10 Columbus Circle, N. Y.
Bid-Search Development Co., 2019 W. 71 Terrace, Kansas City, Mo.
Bowen Engineering, Inc., 10 Station Rd., North Branch, N. J.
Alvin J. Cox, 1118 Emerson St., Palo Alto, Calif.
Hill Top Research Institute, Miamiville, O.
Hudson Laboratories, 117 W. 13th St., N. Y. 11
Industrial Biology Labs., Inc., Box 7346, Phila., Pa.
Industrial Bio-Test Labs., 1810 Frontage Rd., Northbrook, Ill.
Kroner Laboratories, Inc., 275 Water St., N. Y. C.
Leberco Labs., 123 Hawthorne St., Roselle Park, N. J.
Lawall & Harrison Res. Laboratories, 1921 Walnut St., Phila., Pa.
Lodes Aerosol Consultants, Inc., 730 5th Ave., N. Y.
John J. Mahoney, 106 W. 56 St., N. Y. C.
J. W. McCutcheon, Inc., 475 Fifth Ave., N. Y.
Molnar Laboratories, 211 E. 19th St., N. Y.
Donald Price, 123 E. 92nd St., N. Y. 28
Reed Research Corp., Mill St., Huntington, Shelton, Conn.
Rosner-Hixon Laboratories, 7937 S. Chicago Ave., Chicago
Scientific Associates, 3755 Forest Park, St. Louis 8
Foster D. Snell, 29 W. 15th St., N. Y.
Stillwell & Gladding, 130 Cedar St., N. Y.
Testfabric, P. O. Box 567, Plainfield, N. J.
Wells Labs., 25 Lewis Ave., Jersey City, N. J.
Wisc. Alumni Research Foundation, Madison, Wisc.
Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

CONTAINERS, PLASTIC (see Bottles, Plastic)

CONTAINERS, STEEL SHIPPING (see Drums, Steel or Pails, Steel)

CONTINUOUS PROCESS SOAP AND DETERGENT PLANTS

Chemithon Corp., 5430 W. Marginal Way, Seattle, Wash.
DeLaval Separator Co., Poughkeepsie, N. Y.
Emery Industries, Carew Tower, Cincinnati, O.
G. Mazzoni, Busto Arsizio, Italy
Meccaniche Moderne, Coro Sempione 51, Busto Arsizio, Italy
Sharples Corp., 23rd & Westmoreland Sts., Phila. 40
A. Savy, Jeanjean & Cie, Ave. Dubonnet, Courbevoie, France
Foster D. Snell, 29 W. 15th St., N. Y. 11
Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chgo.

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Acepak, Inc., 7230 S. Chicago Ave., Chicago 19
A-M-R Chem. Co., 985 E. 35th St., Brooklyn 10
Aero-Chem Fillers, Inc., 1981 State St., Ext., Bridgeport, Conn.
Aerosol Techniques, Inc., 1730 State St., Ext., Bridgeport, Conn.
Armstrong Laboratories, 421 LaGrange St., Boston
G. Barr & Co., 3601 S. Racine Ave., Chicago
Bixon Chem. Corp., 1163 Southern Blvd., N. Y. 59
Britex Corp., 17 Lewis Wharf, Boston
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.
Capitol Packaging Co., 1501 N. 31 Ave., Melrose Park, Ill.
Chemical Enterprises, 1131 W. Devon Ave., Chicago 40
Clarkson Laboratories, 920 N. Darien St., Phila. 23
Continental Filling Corp., 123 N. Hazel, Danville, Ill.
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Gard Industries, Inc., 1739 Harding Rd., Northfield, Ill.
R. Gesell, Inc., 200 W. Houston St., N. Y.
Help, Inc., 122 W. Kinzie St., Chicago
R. Hurwich Co., 1043 Hearst Ave., Berkeley, Calif.
Iver's-Lee Co., 215 Central Ave., Newark, N. J.
Jones-Hamilton Co., 455 Wells Ave., Newark, Calif.
Klix Chemical Co., 551 Railroad Ave., South San Francisco, Calif.
Manufacturers Aid Co., 721 Grand Ave., Hoboken, N. J.
Old Empire Inc., Mt. Prospect & Verona Aves., Newark, N. J.
Pace, Inc., MacArthur Rd., Wilmington 99, Dela.
Paket, Inc., 9022 S. Baltimore St., Chicago
Peterson Filling & Packg. Co., Hegeler Lane, Danville, Ill.
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Reily Chem. Co., Industrial Prods. Div., P. O. Box 98, New Orleans
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
John C. Stalfort & Sons, 319 W. Pratt, Baltimore
John T. Stanley Co., 642 W. 30th St., N. Y. 1
Tex-ite Prods. Corp., 859 E. 43 St., Brooklyn 10
Trio Chemical Wks., 341 Scholes St., Bklyn. 6
Uncle Sam Chem. Co., 575 W. 131st St., N. Y. 27
Western Filling Corp., 6423 Bandini Blvd., Los Angeles 23
Warsaw Chemical Co., Warsaw, Ind.

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Alsop Engineering Corp., Milldale, Conn.
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Arthur Colton Co., 3431 E. Lafayette, Detroit
Crown Cork & Seal Co., Baltimore
Economic Machy. Co., 60 Fremont St., Worcester, Mass.
Emhart Mfg. Co., Portland, Conn.
FMC Packaging Machy. Div., 4972 Summerdale Ave., Phila., Pa.
Filpaco Industries, 2464 S. Michigan Ave., Chicago
Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh
Houchin Div., 300 Straight St., Paterson, N. J.
Island Equip. Corp., 1090 E. 31st St., Hialeah, Fla.
Paul L. Karstrom Co., 1822 W. 74th St., Chicago 36
Karl Kiefer Machine Co., 919 Martin St., Cincinnati
Laub Engineering Co., 244 N. San Marino Ave., San Gabriel, Calif.
Link-Belt Co., 910 S. Michigan, Chicago
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Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
M. R. M. Co., 191 Berry St., Bklyn.
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
Pneumatic Scale Corp., Quincy 71, Mass.
Proctor & Schwartz, Inc., 7th St. and Tabor Rd., Phila. 20
Rapids Machinery Co., Marion, Iowa
Read Standard Corp., York, Pa.
Henry Simon Ltd., Cheadle Heath, Stockport, England
Sprout, Waldron & Co., Muncy, Pa.
Stephens-Adamson Mfg. Co., Aurora, Ill.
F. J. Stokes Machine Co., Tabor Rd., Phila., Pa.
Syntron Co., Homer City, Pa.
Tite-Cap Machine Co., 57 Rose St., N. Y. 7
Triangle Packaging Machy. Co., 6633 W. Diversey Blvd., Chicago
U. S. Bottlers Machy Co., 4019 N. Rockwell St., Chicago
Weigh Right Automatic Scale Co., Joliet, Ill.
Young Machy. Co., Muncy, Pa.

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General Petroleum Corp., of Calif., 108 W. 2nd St., Los Angeles
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Koppers Co., Chamber of Commerce Bldg., Pittsburgh 19
Naftone, Inc., 515 Madison Ave., N. Y. 22
Oronite Chemical Co., 200 Bush St., San Francisco
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Socony Mobil Oil Co., 150 E. 42nd St., N. Y. 17
Witco Chem. Corp., 122 E. 42nd St., N. Y. 17

COPPER SULFATE (Blue Vitriol)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
W. R. E. Andrews Sales, Inc., 1505 Race St., Philadelphia 2, Pa.

J. T. Baker Chem. Co., Phillipsburg, N. J.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Irvington Smelting & Refining Co., 374 Nye Ave., Irvington, N. J.
Phelps Dodge Refining Corp., 40 Wall St., N. Y. 5
Robeco Chemicals, Inc., 25 E. 26th St., N. Y.
Tennessee Corp., Atlanta, Ga.
Jos. Turner & Co., Ridgefield, N. J.

CORKING MACHINERY

Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh
Karl Kiefer Machine Co., 919 Martin St., Cincinnati
Laub Engineering Co., 244 N. San Marino Ave., San Gabriel, Calif.
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
Pneumatic Scale Corp., Quincy 71, Mass.
Tite-Cap Machine Co., 57 Rose St., N. Y.
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Armstrong Cork Co., Lancaster, Pa.
Continental Can Co., 100 E. 42nd St., N. Y. 17
Dodge Cork Co., Lancaster, Pa.

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Archer-Daniels-Midland Co., Minneapolis
Corn Products Sales Co., 17 Battery Pl., N. Y.
Spencer Kellogg & Sons, Buffalo, N. Y.

CORN MEAL

American Maize Prods. Co., 250 Park Ave., N. Y.
Corn Products Sales Co., 17 Battery Pl., N. Y.
Spencer Kellogg & Sons, Buffalo, N. Y.

CORN OIL

American Maize Prods. Co., 250 Park Ave., N. Y.
Balfour, Guthrie & Co., Ltd., 67 Wall St., N. Y.
Commercial Solvents Corp., 260 Madison Ave., N. Y.
T. G. Cooper & Co., Cedar & Venango Sts., Phila.
Corn Products Sales Co., 17 Battery Pl., N. Y.
A. Gross & Co., 295 Madison Ave., N. Y. 17
Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Phila.
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave., N. Y. 17
Spencer Kellogg & Sons, 98 Delaware Ave., Buffalo, N. Y.
National Starch & Chem. Corp., 750 3rd Ave., N. Y. 17
Pacific Vegetable Oil Corp., 1145 S. 10 St., Richmond, Calif.
Swift & Co., Hammond, Ind.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

CORN OIL FATTY ACIDS

Archer-Daniels-Midland Co., Minneapolis 2, Minn.
Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
Capital City Prods. Co., 525 W. 1st St., Columbus, O.
Corn Prods. Sales Corp., 17 Battery Pl., N. Y. 4
Emery Industries, Carew Tower, Cincinnati
E. F. Drew & Co., Boonton, N. J.
A. Gross & Co., 295 Madison Ave., N. Y. 17
Harchem Div., 25 Main St., Belleville 9, N. J.
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
A. E. Staley Mfg. Co., Decatur, Ill.
Swift & Co., Hammond, Ind.
Joseph Turner & Co., Ridgefield, N. J.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Wilson-Martin Div., Snyder Ave., & Swanson St., Phila.
Woburn Chemical Corp., 1200 Harrison Ave., Kearny, N. J.
G. S. Ziegler & Co., Box 348, Great Neck, N. Y.

CORN STARCH (see Starch)

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G. Barr & Co., 3601 S. Racine Ave., Chicago
Curley Co., 1432 N. Randolph St., Phila.
Flam-Haft Laboratories, 8 E. 12th St., N. Y. 3
Fluid Chem. Co., 878 Mt. Prospect Ave., Newark, N. J.
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T. G. Cooper & Co., Cedar & Venango Sts., Phila.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Eastern Industries, Inc., Ridgefield, N. J.
Emery Industries, Inc., 4300 Carew Tower, Cincinnati
A. Gross & Co., 295 Madison Ave., N. Y.
Harchem Div., 25 Main St., Belleville 9, N. J.
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
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Swift & Co., Hammond, Ind.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Wilson-Martin Div., Snyder & Swanson, Phila.
Woburn Chemical Corp., 1200 Harrison Ave., Kearny, N. J.
G. S. Ziegler & Co., Box 348, Great Neck, N. Y.

COTTONSEED OIL

Archer-Daniels-Midland Co., Minneapolis 2
T. G. Cooper & Co., Cedar & Venango Sts., Phila.
Eastern Industries, Inc., Ridgefield, N. J.
Pacific Vegetable Oil Corp., 1145 S. 10 St., Richmond, Calif.
Portsmouth Cotton Oil Refining Corp., Portsmouth, Va.
J. H. Redding Co., 17 Battery Pl., N. Y.
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.
C. F. Simonin's Sons, Phila.
Southern Cotton Oil Co., 25 Broad St., N. Y.
Swift & Co., Hammond, Ind.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

COUMARIN (see also Aromatic Chemicals)

Aromatic Products, Inc., 235 4th Ave., N. Y. 3
Dodge & Olcott, Inc., 180 Varick St., N. Y.
Dow Chemical Co., Midland, Mich.
Felton Chemical Co., 603 Johnson Ave., Brooklyn
Florasynth Laboratories, 900 Van Nest Ave., N. Y.
Fritzsche Bros., 76 Ninth Ave., N. Y. 11
Givaudan-Delawanna, 321 W. 44th St., N. Y.
International Flavors & Fragrances, Inc., 521 W. 57 St., N. Y. C.
Geo. Lueders & Co., 427 Washington St., N. Y. 13
Lautier Fils, 321 5th Ave., N. Y. 16
Magnus, Mabee & Reynard, 16 Debrosses Street, N. Y.
Monsanto Chemical Co., St. Louis 24, Mo.
Neumann-Buslee & Wolfe, 5800 Northwest Highway, Chicago
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.
Orbis Prods. Corp., 601 W. 26th St., N. Y. 1
S. B. Penick & Co., 100 Church St., N. Y. 8
Roubechez, Inc., 8 E. 12th St., N. Y.
Rhodia, Inc., 60 E. 56th St., N. Y.
Schimmel & Co., 601 W. 26th St., N. Y.
Stepan Chem. Co., 427 W. Randolph St., Chicago
Sterwin Chemicals, Inc., 1450 Broadway, N. Y.
Ungerer & Co., 161 Ave. of Americas, N. Y. 13
Verona Aromatics, 26 Verona Ave., Newark, N. J.

CREOSOTE (see Coal Tar Raw Materials)

CRESOL COMPOUND, U.S.P. and Technical (see Disinfectants, Coal Tar)

CRESOLS

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American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Baird & McGuire, Inc., Holbrook, Mass.
Coal Tar Chemicals Corp., 420 Lexington Ave., N. Y.
Concord Chem. Co., 205 S. 2nd St., Camden 1, N. J.
Hercules Powder Co., Wilmington
James Huggins & Son, 239 Medford St., Malden, Mass.
Koppers Co., Pittsburgh 19
Monsanto Chemical Co., St. Louis 4
Neville Chemical Co., Pittsburgh 25
Penna. Industrial Chem. Corp., Clairton, Pa.
Plastics & Coal Chem. Div., 40 Rector St., N. Y. 6
Riches-Nelson, Inc., 342 Madison Ave., N. Y.
Reilly Tar & Chemical Co., Merchants Bank Bldg., Indianapolis
Robeco Chemicals, Inc., 25 E. 26th St., N. Y.
U. S. Steel Corp., Pittsburgh 30

CRESYLIC ACID

American-British Chem. Supplies, 180 Madison Ave., N. Y. 16
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.

Atlantic Refining Co., 260 S. Broad St., Phila. 1
 Baird & McGuire, Inc., Holbrook, Mass.
 Concord Chemical Co., 205 S. 2nd St., Camden 1, N. J.
 Koppers Co., Pittsburgh 19
 Merichem Co., 3101 Fannin St., Houston 4, Tex.
 Monsanto Chemical Co., St. Louis 4
 Oronite Chem. Co., 200 Bush St., San Francisco
 Plastics & Coal Chem. Div., 40 Rector St., N. Y. 6
 Reilly Tar & Chem. Corp., Merchants Bank Bldg., Indianapolis
 Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17
 Robeco Chemicals, Inc., 23 E. 26 St., N. Y.
 Shell Oil Co., 50 W. 50th St., N. Y. 20
 Socony Mobil Oil Co., 150 E. 42nd St., N. Y. 17
 Standard Oil Co., of Calif., San Francisco
 Tar Residuals, Inc., 420 Lexington Ave., N. Y. 17
 United States Steel Co., Pittsburgh 30
 James Varley & Sons, 1200 Switzer Ave., St. Louis 15

CRUTCHERS

Edge Moor Iron Wks., Edge Moor, Del.
 Houchin Div., 300 Straight St., Paterson, N. J.
 G. Mazzoni, Busto Arsizio, Italy
 Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
 Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago
 H. K. Porter Co., Oliver Bldg., Pittsburgh
 Struthers-Wells Co., Warren, Pa.

CUBE

Camilli, Albert & Laloue, 15 E. 48th St., N. Y. 17
 Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
 Fairfield Chem. Div., 441 Lexington Ave., N. Y. 17
 McLaughlin, Gormley, King Co., 1715 5th St., SE, Minneapolis
 S. B. Penick & Co., 100 Church St., N. Y. 7
 Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y.

CUTTING TABLES (see Soap Machinery)

CYANIDES (see Fumigants) (see Sodium Cyanide)

CYCLOHEXANE

Eastern States Pet. & Chem. Corp., Houston 12, Texas
 Philips Petroleum Co., Bartlesville, Okla.
 Shell Chem. Corp., 460 Park Ave., N. Y.

CYCLOHEXANOL

E. I. du Pont de Nemours & Co., Wilmington
 Monsanto Chemical Co., St. Louis 24, Mo.
 National Aniline Div., 40 Rector St., N. Y.

CYCLOHEXANONE

E. I. du Pont de Nemours & Co., Wilmington
 National Aniline Div., 40 Rector St., N. Y.

DAUBERS (see Shoe Polish Daubers)

DAIRY SPRAYS (see Cattle Dips and Sprays)

DDT (Dichloro-diphenyl-trichloroethane) (Technical)

Diamond Alkali Co., Union Commerce Bldg., Cleveland
 Geigy Agricultural Chemicals, Ardsley, N. Y.
 General Chemical Div., 40 Rector St., N. Y.
 R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.
 Michigan Chem. Corp., St. Louis, Mich.
 Olin Mathieson Chem. Corp., Baltimore 3
 Prentiss Drug & Chem. Co., 101 W. 31 St., N. Y. 1
 Rohm & Haas Co., 222 W. Washington Sq., Phila.
 Stauffer Chemical Co., 380 Madison Ave., N. Y.
 Westvaco Chlor-Alkali Div., 161 E. 42nd St., N. Y.
 Wyandotte Chemicals Corp., Wyandotte, Mich.

DDT FORMULATIONS (Liquids and Powders)

ABC Compounding Co., Oakcliff & Harwell Rds., SW, Atlanta, Ga.
 American Potash & Chem. Corp., 3030 W. 6th St., Los Angeles
 A-M-R Chemical Co., 985 E. 35th St., Bklyn. 10
 Baird & McGuire, Inc., Holbrook, Mass.
 Barnett Chemical Products Co., 326 Lafayette Bldg., Phila. 6
 California Spray-Chemical Corp., Richmond, Calif.
 Chem. Compounding Corp., 262 Huron St., Bklyn.
 Chem. Insecticide Corp., 30 Whiteman Ave., Metuchen, N. J.

Diamond Alkali Co., Union Commerce Bldg., Cleveland
 Dow Chemical Co., Midland, Mich.
 E. I. du Pont de Nemours & Co., Wilmington
 Fine Organics, Inc., 205 Main St., Lodi, N. J.
 Freesmeier Laboratories, 3661 Windsor Pl., St. Louis 13
 Frontier Chem. Prods., Inc., 119 E. Soper St., St. Louis
 Fuld Bros., 702 S. Wolfe St., Baltimore
 Geigy Agric. Chem., Ardsley, N. Y.
 General Chemical Div., 40 Rector St., N. Y.
 Hub States Chems. & Equipment, 1255 N. Windsor St., Indianapolis
 Hysan Products Co., 930 W. 38th Pl., Chicago
 Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C., N. Y.
 Klux Chem. Co., 551 Railroad Ave., S. San Francisco
 McLaughlin, Gormley, King Co., 1715 5th St., Minneapolis
 Michigan Chemical Corp., St. Louis, Mich.
 Midland Laboratories, Dubuque, Iowa
 Miller Products Co., 1932 S. W. Water Ave., Portland, Ore.
 S. B. Penick & Co., 100 Church St., N. Y.
 Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
 Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1
 Private Brands, Inc., 300 S. 3 St., Kansas City, Kan.
 Puro Co., 2801 Locust St., St. Louis 3
 Residex Corp., 1500 W. Elizabeth Ave., Linden, N. J.
 Rohm & Haas Co., 222 W. Washington Sq., Phila.
 Shell Chem. Corp., 50 W. 50th St., N. Y. 20
 Stauffer Chem. Co., 380 Madison Ave., N. Y.
 Swift & Co., Chicago 9
 Thompson-Hayward Chem. Co., 2915 SW Blvd., Kansas City 8
 Uncle Sam Chemical Co., 575 W. 131 St., N. Y. 27
 United-Heckathorn, 600 S. 4 St., Richmond, Calif.
 U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago
 James Varley & Sons, 1200 Switzer Ave., St. Louis 15

DEALERS (Chemicals)

Akron Chem. Co., 1025 Sweitzer Ave., Akron, Ohio
 American-British Chem. Supplies, 180 Madison Ave., N. Y.
 Amso Solvents & Chemicals Co., 4619 Reading Road, Cincinnati 29
 Axton-Cross Co., Shelton, Conn.
 Baker & Gaffney, Drexel Bldg., Philadelphia
 H. J. Baker & Bro., 271 Madison Ave., N. Y.
 Barada & Page, Kansas City, Mo.
 S. H. Bell Co., 1407 Gulf Bldg., Pittsburgh
 Banner Chemical Co., 20 N. Wacker St., Chicago
 Berkshire Chemicals, Inc., 420 Lexington Ave., N. Y. 17
 Buffalo Solvents & Chemicals Corp., Box 73 Station B, Buffalo 7, N. Y.
 John H. Calo Co., 19 Rector St., N. Y. 6
 Central Solvents & Chemical Co., 2540 W. Flournoy St., Chicago 12
 John A. Chew, Inc., 60 E. 42nd St., N. Y.
 Consumers Chemical Co., Drexel Bldg., Philadelphia
 T. G. Cooper & Co., Cedar & Venango Sts., Phila. 34
 Dickerson Co., Drexel Bldg., Phila.
 Dixie Sols. & Chems. Co., Dixie Highway, Louisville, Ky.
 Doe & Ingalls, 56 Garden St., Boston
 A. C. Drury & Co., 219 E. North Water St., Chicago
 Eastern Industries, Ridgely, N. J.
 Eaton Clark Co., 1490 Franklin St., Detroit
 Faesy & Besthoff, 25 E. 26th St., N. Y.
 Alex C. Fergusson Co., Drexel Bldg., Phila.
 Fort Pitt Chemical Co., 3134 Penn Ave., Pittsburgh
 Gaylord Chem. Co., 701 Woodweather Rd., Kansas City
 Globe Chemical Co., Murray Road, Cincinnati
 Griffin Chem. Co., 1000 16th St., San Francisco
 Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Phila.
 C. P. Hall Co., Akron, Ohio
 Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis
 Hub States Chems. & Equipment, 1255 N. Windsor St., Indianapolis
 Hummel Chemical Co., 90 West St., N. Y.
 Innis Speiden & Co., 420 Lexington Ave., N. Y.
 P. J. Lo Bue Co., 277 Park Ave., N. Y.
 Los Angeles Chem. Co., 2200 Santa Fe Ave., Los Angeles
 John F. Maher & Co., 1600 Henderson St., Houston, Tex.
 Merchants Chemical Co., 60 E. 42nd St., N. Y.
 Millmaster Chem. Corp., 99 Park Ave., N. Y.
 Newman Tallow & Soap Machinery Co., 3601 S. Iron St., Chicago
 Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis 7, Mo.
 Clarence Morgan & Co., 919 N. Michigan Ave., Chicago
 Wm. D. Neuberg Co., 420 Lexington Ave., N. Y.
 Neumann-Buslee & Wolfe, 5800 Northwest Highway, Indianapolis
 Newman Tallow & Soap Machinery Co., 1051 W. 35th St., Chicago
 Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland 11, Ohio
 Philipp Bros. Chemicals, 37 Wall St., N. Y.
 Prior Chem. Corp., 420 Lexington Ave., N. Y. 17
 G. S. Robins & Co., 126 Chouteau Ave., St. Louis
 Robeco Chemicals, Inc., 25 E. 26th St., N. Y.
 Southern Solv. & Chem. Corp., Jefferson Highway, New Orleans
 K. A. Steel Chems. Inc., 7450 Stony Island Ave., Chicago
 Tar Residuals, Inc., 420 Lexington Ave., N. Y.

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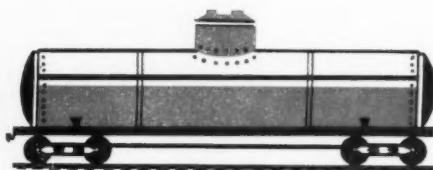
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Los Angeles, San Francisco, Seattle

Foreign Affiliate: California Chemical International, Inc., San Francisco, Geneva, Panama

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DEALERS (Chemicals) (Contd.)

Texas Solvents & Chemicals Co., 8501 Market St., Houston
Thompson-Hayward Chem. Co., 2915 Southwestern Blvd., Kansas City
Toledo Sols. & Chems. Co., 4051 South Ave., Toledo, O.
Arthur C. Trask Co., 4103 S. La Salle St., Chicago
Jos. Turner & Co., Ridgefield, N. J.
Chas. A. Wagner Co., 4455 N. 6th St., Phila.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit 11
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee
Wolverine Solv. & Chem. Co., 2940 Stafford Ave., SW, Grand Rapids

DEALERS (Oil and Fats)

Balfour, Guthrie & Co., 67 Wall St., N. Y.
John H. Calo Co., 19 Rector St., N. Y. 6
T. G. Cooper & Co., Cedar & Venango Sts., Phila.
Geo. Degen & Co., 111 Broadway, N. Y. 6
Delta Chem. Wks., 23 W. 60th St., N. Y. 23
Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Phila.
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave., N. Y.
Lephorn Trading Co., 141 E. 44th St., N. Y. C.
Miller & Co., 2401 Chestnut St., Philadelphia
Murray Oil Products Co., 21 West St., N. Y.
Neatsfoot Oil Refineries Corp., E. Ontario & Bath Sts., Phila.
Newman Tallow & Soap Machinery Co., 3601 S. Iron St., Chicago
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Willibald Schaefer Co., Foot of Boemen Ave., St. Louis
Smith-Weihman Co., 15 Moore St., N. Y.
Arthur C. Trask Co., 4103 S. La Salle St., Chicago
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

DECOLORIZING CARBONS

Atlas Powder Co., Wilmington, Del.
Cliffs-Dow Chem. Co., Marquette, Mich.
R. W. Greeff Co., 10 Rockefeller Plaza, N. Y.
Industrial Chem. Sales Div., 230 Park Ave., N. Y.

DEFOAMERS

Air Reduction Chem. Co., 150 E. 42nd St., N. Y. C.
Antara Chemicals, 435 Hudson St., N. Y.
American Alcolac Corp., 3440 Fairfield Rd., Baltimore
Ciba Co., Fair Lawn, N. J.
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
Dow Corning Corp., Midland, Mich.
Emkay Chem. Co., Elizabeth 1, N. J.
Fine Organics, Inc., 205 Main St., Lodi, N. J.
General Electric Co., Waterford, N. Y.
Glyco Chemicals Div., 417 5 Ave., N. Y.
Hercules Powder Co., Wilmington
Hodag Chem. Corp., 7247 N. Central Park, Chicago 45
Jefferson Chem. Co., 1121 Walker Ave., Houston, Tex.
Kessler Chem. Co., State Rd., Phila. 35
M. Michel & Co., 90 Broad St., N. Y. 4
Nalco Chem. Co., 6215 W. 66 Pl., Chicago
Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City, N. J.
Silicones Div., Union Carbide Corp., 30 E. 42nd St., N. Y.
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
Swift & Co., Chicago
Witco Chem. Co., 122 E. 42 St., N. Y. 17
Wyandotte Chemicals Corp., Wyandotte, Mich.

DEGREASING COMPOUNDS (see Cleaners)

DEODORANT SOAP (see Soaps, Antiseptic)

DEODORANTS (Basic chemicals for deodorant toilet soaps, lotions, etc.)

Atlas Powder Co., Wilmington 99, Dela.
Catalin Corp. of Am., 1 Park Ave., N. Y.
Chemo Puro Mfg. Co., 60 E. 42 St., N. Y. C.
Dow Chem. Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Fine Organics, Inc., 205 Main St., Lodi, N. J.
Heyden Newport Chem. Co., 342 Madison Ave., N. Y. 17
Hilton-Davis Chemical Co., 2235 Langdon Farm Rd., Cincinnati
Monsanto Chemical Co., St. Louis 24, Mo.
Olin Mathieson Chem. Corp., Baltimore 3
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.
Ottawa Chem. Co., 819 Hamilton, Toledo, O.
Rohm & Haas Co., 222 W. Washington Square, Phila. 5
Sindar Corp., 321 W. 44th St., N. Y.

Sole Chem. Corp., 7740 S. Chicago Ave., Chicago
Sterwin Chemicals, Inc., 1450 Broadway, N. Y. 18
Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17
R. T. Vanderbilt Co., 230 Park Ave., N. Y.

DEODORANTS, Room Deodorants, Air Conditioning, etc., (see Listings under Disinfectants; Glycol Sprays; Aerosol Deodorants.)

DEODORIZED BASE OILS (see Insecticide Oils)

DEODORIZING BLOCK HOLDERS

Allied Block Chemical Co., 428 Bingham St., Pittsburgh
Chem. Service of Baltimore, Howard & West Sts., Baltimore
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Cin-Made Corp., 800 E. Ross Ave., Cincinnati 1
Franklin Metal Prods. Co., 16 W. Kinzie St., Chicago
Fuld Bros., 702 S. Wolfe St., Baltimore
Hysan Prods. Co., 900 W. 38th Place, Chicago
Kleenaire Kemikils, 2227 24th St., Detroit
Shore Calnevar, Inc., 2881 E. Pico Blvd., Los Angeles
Uncle Sam Chem. Co., 573 W. 131st St., N. Y. 27
U. S. Sanitary Specialties Corp., 1001 S. Calif., Chicago 12

DEODORIZING BLOCKS AND CRYSTALS

ABC Compounding Co., Oakcliff & Harwell Rds., SW, Atlanta, Ga.
Allied Block Chemical Co., 428 Bingham St., Pittsburgh
Airkem, Inc., 241 E. 44th St., N. Y.
A-M-R Chemical Co., 985 E. 35th St., Brooklyn 18
B & W Chemical Co., 25920 Belle Porte, Harbor City, Calif.
Barnett Chemical Products Co., 326 Lafayette Bldg., Phila. 6
Chem. Service of Balto., Howard & West Sts., Balto.
Click Chemical Co., Columbus & Carleton Ave., Mt. Vernon, N. Y.
Clifton Chemical Co., 150 Nassau St., N. Y. C.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Davies-Young Soap Co., Dayton, O.
Fuld Bros., 702 S. Wolfe St., Baltimore
James Good, Inc., 2107 Susquehanna Ave., Phila.
Hysan Prods. Co., 930 W. 38th Place, Chicago
Kleenaire Kemikils, Inc., 2227 24th St., Detroit
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Puro Co., 2801 Locust St., St. Louis
Solvay Process Div., 61 Broadway, N. Y.
Trio Chem. Wks., 341 Scholes St., Bklyn.
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
James Varley & Sons, 1200 Switzer Ave., St. Louis 15

DEODORIZING BLOCK PERFUMES (see Perfuming Compounds)

DEODORIZING BLOCK PRESSES (see Presses)

DEODORIZING AND BLEACHING EQUIPMENT (For Oils)

Blaw-Knox Corp., Chicago
Foster-Wheeler Co., 165 Broadway, N. Y.
William Garrigue & Co., 9 S. Clinton St., Chicago
Girdler Process Equipment Div., Louisville, Ky.
Houchin Division, 300 Straight St., Paterson, N. J.
Newman Tallow & Soap Machinery Co., 3601 S. Iron St., Chicago
F. J. Stokes Machine Co., 5918 Tabor Rd., Phila.
Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chicago

DERRIS

Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Fairfield Chemical Div., 441 Lexington Ave., N. Y.
McLaughlin, Gormley, King Co., 1715 5th St., SE, Minneapolis
Olin Mathieson Chem. Corp., Baltimore 3
S. B. Penick & Co., 100 Church St., N. Y. 7
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y.

DETERGENT FEEDERS (see Soap Dispensers, Dishwashing Compound)

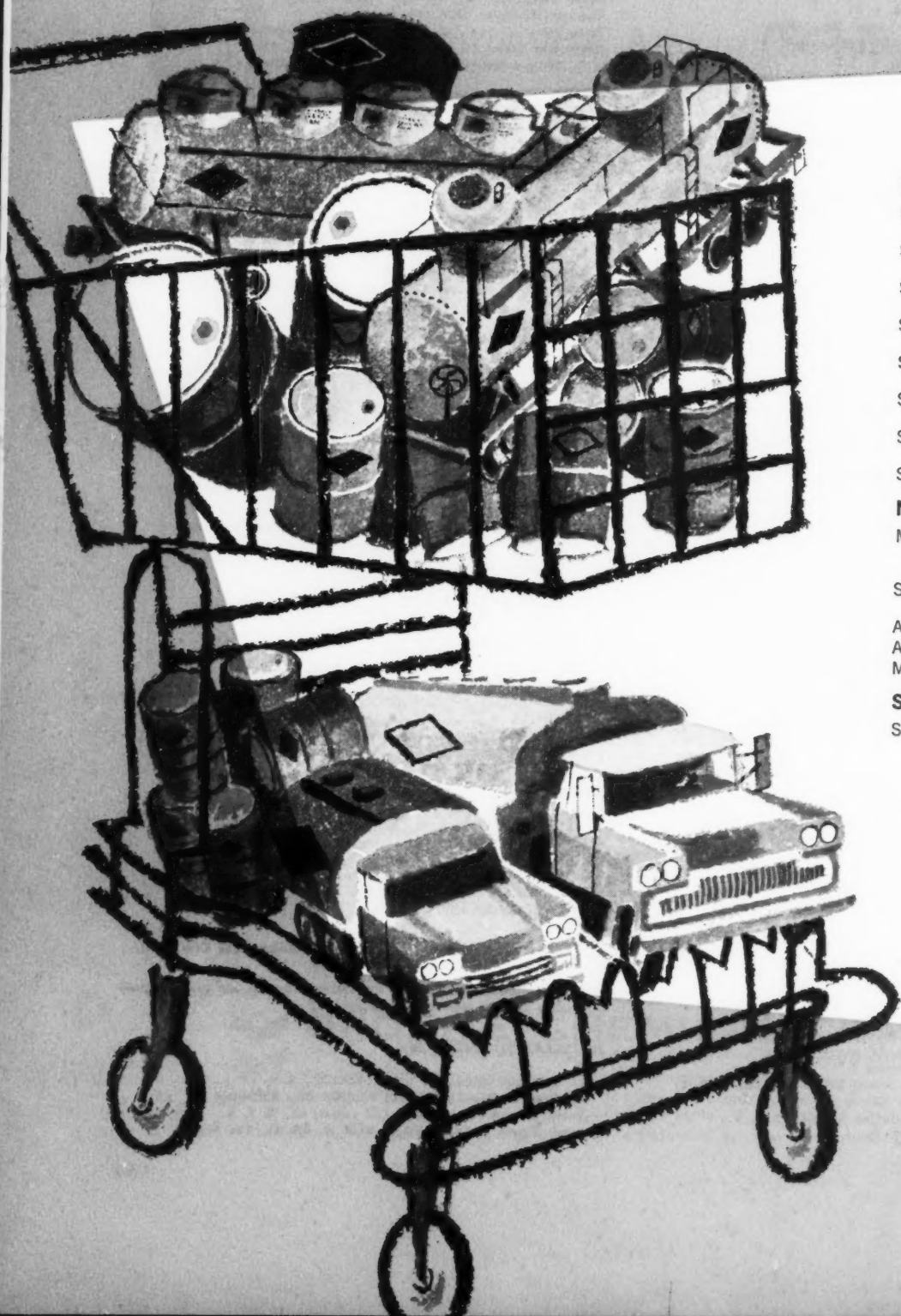
DETERGENT SOLUTIONIZERS, for dispensing detergent and soap solutions ready for use (see Soap Solutionizers)

DETERGENT INTERMEDIATES

Air Reduction Chem. Co., 150 E. 42nd St., N. Y. 17
American Alcolac Corp., 3440 Fairfield Rd., Baltimore
American Int'l. Prods. Corp., 138 Liberty St., N. Y. 6
Amer. Potash & Chem. Corp., 3030 W. 6th St., Los Angeles

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STEPANOL MG	Magnesium Lauryl Sulfate
STEPANOL AM	Ammonium Lauryl Sulfate
STEPANOL T-28	Foam stabilized blend
STEPANOL ME DRY	Powdered Sodium Lauryl Sulfate
STEPANOL ME DRY AW	Powdered — dentifrice grade

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MAKON 4, 6, 10, 14, 30	Nonyl Phenol Ethylene Oxide condensates
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AMIDOX C SERIES	Ethoxylated amides
MAKON B SERIES	Mixed Alkyl Phenol Ethoxylates

SULFONATES

STEPAN DS-60	Desalted Sodium Alkyl Aryl Sulfonate
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STEPAN AAAS	Ammonium Alkyl Aryl Sulfonate
NINEX 303	Sodium Xylene Sulfonate
STEPANATE T	Sodium Toluene Sulfonate
STEPANATE K	Potassium Toluene Sulfonate
NINATE 411	Oil Soluble Amine Alkyl Aryl Sulfonate
NINATE 401	Oil Soluble Calcium Alkyl Aryl Sulfonate
STEPAN DT-20	Potassium Alkyl Aryl Sulfonate with coupler
SULFONIC 90	Dodecylbenzene Sulfonic Acid
SULFONIC 100	Dodecylbenzene Sulfonic Acid

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MAYPON 4C, 4CT	Mild, non-irritating protein condensates
MAYPON POLYPEPTIDE 37	Sodium salt of polypeptide
MAYPON SK	Sodium salt of pro- tein condensate . . . Soluble in high alkali concentrates

ALKYLOLAMIDES

NINOL 1281	Coconut Diethanolamide
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NINOL AA-62 EXTRA	High Active Lauric Alkylolamide
STEPAN LIPA	Lauric Mono- isopropanolamide
NINOL 201	Oil Soluble Alkylolamides
NINOL HA-10	Alkylolamides
STEPAN HDA-7	Alkali soluble Alkylolamide
STEPAN T-6-B	Cosmetic grade Alkylolamide

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TOXIMUL LF	Universal emulsifier for pesticides in liquid fertilizers
EMULSIFIER WHC	Single emulsifier for Waterless Hand Cleaners

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STEPAN LD-55A	Liquid Dishwash, ready to package
NINEX 26	Highly concentrated liquid detergent for further dilution

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NINOL AA-62 OR AA-62 EXTRA
STEPANOL B-153 • MAKON 10 • NINEX 26

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STEAM CLEANERS, WHITE WALL TIRE CLEANERS

NINEX 24 • MAYPON SK

DEGREASERS

NINATE 411 • NINOL 201 • MAKON BXA, BXK

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STEPAN DT-20 • AMIDOX C-2

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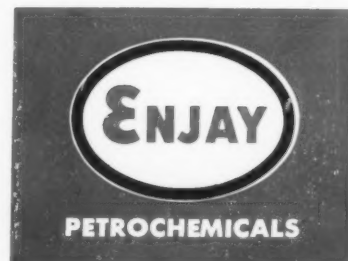
For example, the versatile Enjay Olefins, Tetrapropylene and Tripropylene and Nonene fulfill many rigid requirements as raw materials for anionic and nonionic detergents.

Enjay supplies these low cost products in large volume to the detergent industry. Enjay also markets other surfactant raw materials — OXO Alcohols — Isooctyl, Decyl and Tridecyl — Isopropyl Alcohol, Ethyl Alcohol and Benzene.

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Amoco Chems. Corp., 910 S. Michigan Ave., Chicago
Antara Chemicals, 435 Hudson St., N. Y.
 Archer Daniels Midland Co., Minneapolis 2
 Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
 Atlantic Refining Co., 260 S. Broad St., Philadelphia 1
 Ciba Co., Fair Lawn, N. J.
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
Continental Oil Co., 1270 Av. of Americas, N. Y. 20
 Dehydag Deutsche Hydrierwerke, Henkelstrasse 67, Dusseldorf, Germany
E. I. du Pont de Nemours & Co., Wilmington, Dela.
Enjay Co., 15 W. 51st St., N. Y. 19
 Finetex, Inc., 418 Falmouth Ave., Paterson, N. J.
Geigy Industrial Chems., Ardsley, N. Y.
 Glidden Co., Jacksonville 1, Fla.
 Gulf Oil Corp., 360 Lexington Ave., N. Y. 17
Jefferson Chem. Co., 1121 Walker Ave., Houston, Tex.
 Krystall Chem. Co., 1301 W. Belden Ave., Chicago
 Marchon Prods., Ltd., Whitehaven, Cumberland, England
M. Michel & Co., 90 Broad St., N. Y. 4
Mona Industries, 65 E. 23rd St., Paterson, N. J.
 Monsanto Chemical Co., St. Louis 24, Mo.
National Aniline Div., 40 Rector St., N. Y.
Nitrogen Div., 40 Rector St., N. Y.
 Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
Onyx Oil & Chem. Co., Warren & Norris Sts., Jersey City, N. J.
Oronite Chemical Co., 200 Bush St., San Francisco 20
 Pilot Chem. Co. of Cal., 215 W. 7th St., Los Angeles
 Process Chems. Co., 8733 S. Dice Rd., Los Nietos, Calif.
 Refined Products, Inc., Lyndhurst, N. J.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
 Shell Chemical Corp., 50 W. 50th St., N. Y. 20
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
Solvay Process Div., 61 Broadway, N. Y.
 Sonneborn Chem. & Refin'g. Corp., 300 4th Ave., N. Y. 10
 Stauffer Chem. Co., 380 Madison Ave., N. Y.
 Stepan Chem. Co., 427 W. Randolph St., Chicago
 Swift & Co., Hammond, Ind.
 Treplow Chemical Co., 59 Camden St., Paterson, N. J.
 Ultra Chem. Wks., 2 Wood St., Paterson, N. J.

Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17
 Van Dyk & Co., Belleville 9, N. J.
 Victor Chem. Wks., 155 N. Wacker Dr., Chicago 6
 Virginia-Carolina Chem. Corp., 401 E. Main St., Richmond, Va.
Westvaco Chlor-Alkali Div., 161 E. 42nd St., N. Y.
Witco Chem. Corp., 122 E. 42nd St., N. Y. 17
 Jacques Wolf & Co., 350 Lexington Ave., Passaic, N. J.

DETERGENT SPRAY TOWERS

Bowen Engineering, Inc., 10 Station Rd., North Branch, N. J.
 G. Mazzoni, Busto Arsizio, Italy
 Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
Foster D. Snell, Inc., 29 W. 15th St., N. Y. 11
Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chicago

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ABC Compounding Co., Oakcliff & Harwell Rds., SW, Atlanta, Ga.
 Almo Laboratories Co., 424 Madison Ave., N. Y. 17
 American Agricultural Chem. Co., 100 Church St., N. Y.
 Armour & Co., 1355 W. 31st St., Chicago 9
 Atlantic Refining Co., 260 S. Broad St., Phila.
 B & W Chemical Co., 25920 Belle Porte, Harbor City, Calif.
Baird & McGuire, Inc., Holbrook, Mass.
 Blockson Chemical Co., Joliet, Ill.
 Buckingham Wax Co., 51-03 Van Dam St., LIC, N. Y.
Britex Corp., 17 Lewis Wharf, Boston
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
 Chem. Service Co. of Balto., Howard & West Sts., Balto.
 Clarkson Laboratories, 920 N. Darien St., Phila. 23
Continental Chemical Co., 195 21 Ave., Paterson, N. J.
 Cowles Chemical Co., 7016 Euclid Ave., Cleveland
 Dehydag Deutsche Hydrierwerke, Dusseldorf, Germany
 Diamond Alkali Co., Union Commerce Bldg., Cleveland
E. I. du Pont de Nemours & Co., Wilmington
 East Coast Soap Corp., 89 Coffey St., Bklyn. 31
 Emkay Chem. Co., Elizabeth 1, N. J.
 Emulso Corp., 301 Ellicott St., Buffalo, N. Y.
 Essential Chemicals Co., 5906 N. Port Washington Rd., Milwaukee
 Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.

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Fuld Bros., 702 S. Wolfe St., Baltimore, Md.
J. Chemical Wks., 602 W. 37th St., N. Y.
General Chem. Div., 40 Rector St., N. Y. 6
Haag Laboratories, 14000 S. Seeley Ave., Blue Island, Ill.
Help, Inc., 122 W. Kinzie St., Chicago
Hewitt Soap Co., 333 Linden Ave., Dayton, O.
Hysan Prods. Co., 930 W. 38th Place, Chicago
Industrial Materials Co., 1017 McCall St., Houston
Jones-Hamilton Co., 455 Wells Ave., Newark, Calif.
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C., N. Y.
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Marchon Prods. Ltd., Whitehaven, Cumberland, England
M. Michel & Co., 90 Broad St., N. Y.
Moss Soap Co., Pinellas Int'l Airport, St. Petersburg, Fla.
National Milling & Chem. Co., 4601 Flat Rock Rd., Phila.
Olin Mathieson Chem. Corp., Baltimore 3
Peck's Products, 610 E. Clarence Ave., St. Louis
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Philadelphia Quartz Co., 1056 Public Ledger Bldg., Phila.
S. & S. Soap Co., 815 E. 135th St., N. Y. 54
Solvay Process Div., 61 Broadway, N. Y.
Sonneborn Chem. & Refin'g Corp., 300 4th Ave., N. Y. 10
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Stanalchem Inc., 350 Madison Ave., N. Y. 17
Standard Soap Co. Div., 205 S. 2nd St., Camden, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Stepan Chem. Co., 427 W. Randolph St., Chicago
Swift & Co., Chicago 9
Tex-ite Prods. Corp., 859 E. 43 St., Brooklyn 10
Theobald Industries, P. O. Box 72, Harrison, N. J.
Treprow Chemical Co., 59 Camden St., Paterson, N. J.
Thompson-Hayward Chem. Co., 2915 SW Blvd., Kansas City
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Veneer-O-Wax Corp., 2010 E. Fletcher St., Phila.
Victor Chemical Wks., 155 N. Wacker Dr., Chicago
Virginia-Carolina Chem. Corp., 501 E. Main St., Richmond, Virginia
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Westvaco Mineral Prods. Div., 161 E. 42nd St., N. Y. 17
Witco Chem. Co., 122 E. 42 St., N. Y.
Wyandotte Chemicals Corp., Wyandotte, Mich.

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Armour & Co., 1355 W. 31st St., Chicago 9
Antara Chemicals, 435 Hudson St., N. Y.
Ardmore Chem. Co., 840 Valley Brook Ave., Lyndhurst, N. J.
Atlantic Refining Co., 260 S. Broad St., Phila. 1
B & W Chemical Co., 25920 Belle Porte, Harbor City, Calif.
Ciba Co., Fair Lawn, N. J.
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
Continental Oil Co., 1270 Ave. of Americas, N. Y. 20
Dehydag Deutsche Hydrierwerke, Dusseldorf, Germany
E. I. du Pont de Nemours & Co., Wilmington
Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
Geigy Industrial Chemicals, Ardsley, N. Y.
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Krystall Chem. Co., 1301 W. Belden Ave., Chicago 14
Lever Brothers Co., 390 Park Ave., N. Y. 22
Marchon Prods. Ltd., Whitehaven, Cumberland, England
M. Michel & Co., 90 Broad St., N. Y. 4
Mona Industries, 65 E. 23rd St., Paterson, N. J.
National Aniline Div., 40 Rector St., N. Y.
Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
Oronite Chemical Co., 200 Bush St., San Francisco 20
Petrochemicals Co., 301-5 Danciger Bldg., Fort Worth, Tex.
Pilot Chem. Co. of Cal., 215 W. 7th St., Los Angeles 14
Process Chems. Co., 8733 S. Dice Rd., Los Nietos, Calif.
Procter & Gamble Dist. Co., Cincinnati
Rochester Sanitary Prods. Co., 846 Exchange St., Rochester, N. Y.
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
Stanalchem Inc., 350 Madison Ave., N. Y. 17
Stepan Chem. Co., 427 W. Randolph St., Chicago
Surfacto Co., Inc., Box 114, Blue Island, Ill.
Swift & Co., Chicago 9
Tennessee Corp., 617 Grant Bldg., Atlanta, Ga.
Treprow Chemical Co., 59 Camden St., Paterson, N. J.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
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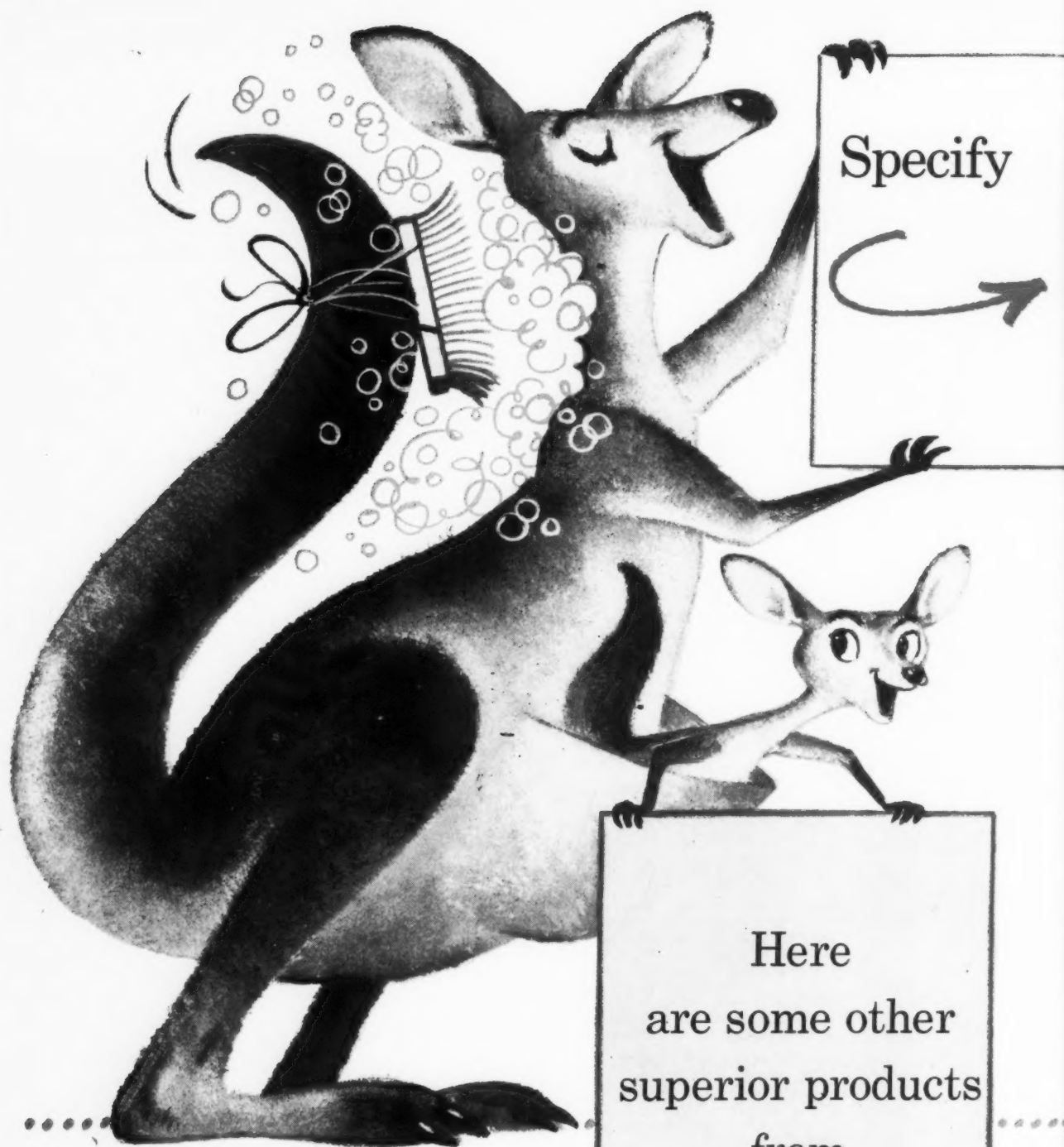
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E. I. du Pont de Nemours & Co., Wilmington
Emkay Chem. Co., Elizabeth 1, N. J.
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
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Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
Stanalchem Inc., 350 Madison Ave., N. Y. 17
Stepan Chem. Co., 427 W. Randolph St., Chicago 6
Swift & Co., Chicago
Trepow Chemical Co., 50 Camden St., Paterson, N. J.
Witco Chem. Co., 122 E. 42nd St., N. Y. 17
Wyandotte Chemicals Corp., Wyandotte, Mich.

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Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
Geigy Industrial Chemicals, Ardsley, N. Y.

Intex Chem. Corp., 167 Main St., Lodi, N. J.
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Krystall Chem. Co., 1301 W. Belden Ave., Chicago 14
Marchon Prods., Inc., Whitehaven, Cumberland, England
M. Michel & Co., 90 Broad St., N. Y. 4
Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.
Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
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Stanalchem Inc., 350 Madison Ave., N. Y.
Stepan Chemical Co., 427 W. Randolph St., Chicago
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Trepow Chemical Co., 59 Camden St., Paterson, N. J.
Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17
Van Dyk & Co., Belleville 9, N. J.
Witco Chem. Co., 122 E. 42 St., N. Y. 17

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Ciba Co., Fair Lawn, N. J.
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
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Emkay Chem. Co., 319 2nd St., Elizabeth N. J.
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
M. Michel & Co., 90 Broad St., N. Y. 4
Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
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Stanalchem Inc., 350 Madison Ave., N. Y. 17
Stepan Chem. Co., 427 W. Randolph St., Chicago
Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17

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American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Antara Chemicals, 435 Hudson St., N. Y. 14
B & W Chemical Co., 25920 Belle Porte, Harbor City, Calif.
Ciba Co., Fair Lawn, N. J.
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
Dehydag Deutsche Hydrierwerke, Dusseldorf, Germany
E. F. Drew & Co., Boonton, N. J.
E. I. du Pont de Nemours & Co., Wilmington
Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
Krystall Chem. Co., 1301 W. Belden Ave., Chicago 14
Marchon Prods., Whitehaven, Cumberland, England
M. Michel & Co., 90 Broad St., N. Y. 4
Miranol Chem. Co., 277 Coit St., Irvington, N. J.
Mona Industries, 65 E. 23rd St., Paterson, N. J.
Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
Stanalchem Inc., 350 Madison Ave., N. Y. 17
Surfacto Co., Inc., Box 114, Blue Island, Ill.
Swift & Co., Chicago
Treplow Chemical Co., 59 Camden St., Paterson, N. J.
Van Dyk & Co., Belleville 9, N. J.
Witco Chem. Co., 122 E. 42nd St., N. Y. 17

DETERGENTS, SYNTHETIC (Anionic), Miscellaneous types

Armour & Co., 1355 W. 31st St., Chicago
American Alcolac Corp., 3440 Fairfield Rd., Baltimore
American Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20
American International Prod. Corp., 138 Liberty St., N. Y. 6
Ardmore Chem. Co., 840 Valley Brook Ave., Lyndhurst, N. J.
Ciba Co., Fair Lawn, N. J.
B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Colgate-Palmolive Co., 300 Park Ave., N. Y.
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
Continental Oil Co., 1270 Ave. of Americas, N. Y. 20
E. F. Drew & Co., Boonton, N. J.
Dehydag Deutsche Hydrierwerke, Dusseldorf, Germany
E. I. du Pont de Nemours & Co., Wilmington, Del.
Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
Hewitt Soap Co., 333 Linden Ave., Dayton 3, O.
Industrial Materials Co., 1017 McCall St., Houston
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Knapp Products, Inc., Lodi, N. J.
Krystall Chem. Co., 1301 W. Belden Ave., Chicago 14
Marathon Corp., Chem. Sales Dept., Rothschild, Wisc.
Marchon Prods., Ltd., Whitehaven, Cumberland, England
M. Michel & Co., 90 Broad St., N. Y. 4
Miranol Chem. Co., 277 Coit St., Irvington, N. J.
Monsanto Chemical Co., St. Louis 24, Mo.
National Aniline Div., 40 Rector St., N. Y.
Nopco Chem. Co., 60 Park Pl., Newark, N. J.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.
Oronite Chem. Co., 200 Bush St., San Francisco
Petrochemicals Co., 301-5 Danciger Bldg., Fort Worth, Tex.
Pilot Chemical Co. of Cal., 215 W. 7th St., Los Angeles 14
Process Chems. Co., 8733 S. Dice, Los Nietos, Calif.
Procter & Gamble Dist. Co., Cincinnati
Quaker Chem. Prods., Conshohocken, Pa.
Rayette, Inc., 261 E. 5th St., St. Paul, Minn.
Refined Products, Inc., 624 Schuyler Ave., Lyndhurst, N. J.
Rohm & Haas Co., Washington Sq., Phila.
Sandoz, Inc., 61 Van Dam St., N. Y. 13
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
Stanalchem Inc., 350 Madison Ave., N. Y. 17
Stepan Chemical Co., 427 W. Randolph St., Chicago
Surfacto Co., Inc., Box 114, Blue Island, Ill.
Swift & Co., Chicago
Tennessee Corp., 617 Grand Bldg., Atlanta, Ga.
Treplow Chemical Co., 59 Camden St., Paterson, N. J.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17
Victor Chem. Wks., 155 N. Wacker Dr., Chicago 6
Virginia-Carolina Chem. Corp., 401 E. Main St., Richmond, Va.
Witco Chem. Co., 122 E. 42nd St., N. Y.



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DETERGENTS, SYNTHETIC (Cationic), for bacteriocidal uses

Antara Chemicals, 435 Hudson St., N. Y. 14
Archer-Daniels-Midland Co., Minneapolis
Armour & Co., 1355 W. 31st St., Chicago 9
Ciba Co., Fair Lawn, N. J.
Continental Oil Co., 1270 Ave. of Americas, N. Y. 20
Cowles Chem. Co., 7016 Euclid Ave., Cleveland 3
E. F. Drew & Co., Boonton, N. J.
E. I. du Pont de Nemours & Co., Wilmington
Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
Fine Organics, Inc., 205 Main St., Lodi, N. J.
Geigy Industrial Chemicals, Ardsley, N. Y.
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Miranol Chem. Co., 277 Coit St., Irvington, N. J.
M. Michel & Co., 90 Broad St., N. Y. 4
Nalco Chem. Co., 6216 W. 66 Pl., Chicago
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.
Ottawa Chem. Co., 823 Hamilton St., Toledo 7, O.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Process Chems. Co., 8733 S. Dice Rd., Los Nietos, Calif.
Procter & Gamble Dist. Co., Cincinnati
Rayette, Inc., 261 E. 5th St., St. Paul, Minn.
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
Stanalchem Inc., 350 Madison Ave., N. Y. 17
Sterwin Chemicals, Inc., 1450 Broadway, N. Y. 18
Tanatex Chem. Corp., Belleville Turnpike, Kearny, N. J.
Wilson-Martin Div., Snyder and Swanson St., Phila.
Witco Chem. Co., 122 E. 42nd St., N. Y.

DETERGENTS, SYNTHETIC (Cationic), general

American Alcolac Corp., 3440 Fairfield Rd., Baltimore
American Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20
Antara Chemicals, 435 Hudson St., N. Y.
Archer-Daniels-Midland Co., Minneapolis
Armour & Co., 1355 W. 31st St., Chicago 9
Ciba Co., Fair Lawn, N. J.
Continental Oil Co., 1270 Ave. of Americas, N. Y. 20
Dehydag Deutsche Hydrierwerke, Dusseldorf, Germany
E. F. Drew & Co., Boonton, N. J.
E. I. du Pont de Nemours & Co., Wilmington
Emkay Chem. Co., 319 2nd Ave., Elizabeth, N. J.
Fine Organics, Inc., 205 Main St., Lodi, N. J.
Geigy Industrial Chemicals, Ardsley, N. Y.
B. F. Goodrich Chem. Co., 3135 Euclid Ave., Cleveland
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
Knapp Prods., Inc., Lodi, N. J.
M. Michel & Co., 90 Broad St., N. Y. 4
Miranol Chem. Co., 277 Coit St., Irvington, N. J.
Nalco Chem. Co., 6216 W. 66 Pl., Chicago
Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.
Oronite Chem. Co., 200 Bush St., San Francisco
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis, Mo.
Process Chems. Co., 8733 S. Dice Rd., Los Angeles, Calif.
Procter & Gamble Dist. Co., Cincinnati
Rayette, Inc., 261 E. 5th St., St. Paul, Minn.
Rohm & Haas Co., Washington Square, Phila. 5
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
Stanalchem Inc., 350 Madison Ave., N. Y. 17
Treplow Chemical Co., 59 Camden St., Paterson, N. J.
Victor Chem. Wks., 155 N. Wacker Dr., Chicago 6
Wilson-Martin Div., Snyder & Swanson St., Phila.
Witco Chem. Co., 122 E. 42nd St., N. Y.

DETERGENTS, SYNTHETIC (Finished), liquid, low-sudsing

ABC Compounding Co., Oakcliff & Harwell Rds., SW, Atlanta, Ga.
Armour & Co., 1355 W. 31st St., Chicago 9
Averil, Inc., 6780 NW 37 Ct., Miami, Fla.
B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Baird & McGuire, Inc., Holbrook, Mass.
Bixon Chem. Corp., 1163 Southern Blvd., N. Y. 59
Britex Corp., 17 Lewis Wharf, Boston
Chem. Service of Balto., Howard & West Sts., Balto.
Clarkson Laboratories, 920 N. Darien St., Phila. 23
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
Dehydag Deutsche Hydrierwerke, Dusseldorf, Germany
E. F. Drew & Co., Boonton, N. J.
Dura Wax Co., McHenry, Ill.
East Coast Soap Corp., 89 Coffee St., Bklyn. 31
Essential Chems. Co., 5906 N. Port Washington Rd., Milwaukee
Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.

Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
Frontier Chem. Prods., Inc., 119 E. Soper St., St. Louis 11
Fuld Bros., Inc., 702 S. Wolfe St., Baltimore 31
Haag Laboratories, 14000 S. Seeley, Blue Island, Ill.
Help, Inc., 122 W. Kinzie St., Chicago
Hysan Prods. Co., 930 W. 38th Place, Chicago
Industrial Materials Co., 1017 McCall St., Houston
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
Klenzade Prods., Beloit, Wisc.
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Marchon Prods., Ltd., Whitehaven, Cumberland, Eng.
M. Michel & Co., 90 Broad St., N. Y. 4
National Milling & Chem. Co., 4601 Flat Rock Rd., Phila. 27
Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City, N. J.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis 15
Procter & Gamble Dist. Co., Cincinnati
Puro Co., 2801 Locust St., St. Louis, Mo.
S. & S. Soap Co., 815 E. 135th St., N. Y. 54
Sanders Chem. Co., 2205 N. American St., Phila. 33
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Stanalchem Inc., 350 Madison Ave., N. Y. 17
Swift & Co., Chicago
Tex-ite Prods. Corp., 859 E. 43 St., Brooklyn 10
James Varley & Sons, 1200 Switzer Ave., St. Louis
Veneer-O-Wax Corp., 2010 E. Fletcher St., Phila.
Roy Wilson Mfg. Co., 2541 Archer Ave., Chicago 8

DETERGENTS, SYNTHETIC (Finished), liquid, sudsing

ABC Compounding Co., Oakcliff & Harwell Rds., SW, Atlanta, Ga.
Antara Chemicals, 435 Hudson St., N. Y.
Armour & Co., 1355 W. 31st St., Chicago 9
Atlantic Refining Co., 260 Broad St., Phila.
Averil, Inc., 6780 NW 37 Ct., Miami, Fla.
B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Baird & McGuire, Inc., Holbrook, Mass.
Betco Corp., 830 Elysian Ave., Toledo 7, O.
Bixon Chem. Corp., 1163 Southern Blvd., N. Y. 59
Britex Corp., 17 Lewis Wharf, Boston
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
Chem. Service of Balto., Howard & West Sts., Balto.
Clarkson Laboratories, 920 N. Darien St., Phila. 23
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
Continental Oil Co., 1270 Ave. of Americas, N. Y. 20
Dehydag Deutsche Hydrierwerke, Dusseldorf, Germany
Dura Wax Co., McHenry, Ill.
E. F. Drew & Co., Boonton, N. J.
East Coast Soap Corp., 89 Coffee St., Bklyn. 31
Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
Essential Chems. Co., 5906 N. Port Washington Rd., Milwaukee
Federal Varnish Div., 2841 S. Ashland Ave., Chicago
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
Freesmeier Laboratories, 3661 Windsor Pl., St. Louis 13
Frontier Chem. Prods., Inc., 119 E. Soper St., St. Louis
Fuld Bros., Inc., 702 S. Wolfe St., Baltimore
Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.
Help, Inc., 122 W. Kinzie St., Chicago
Hewitt Soap Co., 333 Linden Ave., Dayton, O.
Frontier Chem. Prods., Inc., 119 E. Soper St., St. Louis
Fuld Bros., 702 S. Wolfe St., Baltimore
Hysan Prods. Co., 930 W. 38th Place, Chicago
Industrial Materials Co., 1017 McCall St., Houston
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
Kearny Mfg. Co., Kearny, N. J.
Klenzade Prods., Beloit, Wisc.
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Krystall Chem. Co., 1301 W. Belden Ave., Chicago
Lever Brothers Co., 390 Park Ave., N. Y. 22
Magna-Krom Prods., 108 Summer Ave., Vandergrift, Pa.
Marchon Prods., Ltd., Whitehaven, Cumberland, Eng.
M. Michel & Co., 90 Broad St., N. Y. 4
Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.
Monsanto Chemical Co., St. Louis 24, Mo.
Moss Soap Co., Pinellas Int'l. Airport, St. Petersburg, Fla.
National Aniline Div., 40 Rector St., N. Y.
National Milling & Chem. Co., 4601 Flat Rock Rd., Phila.
National Sanitary Products Co., 3944 Olive St., St. Louis
New South Mfg. Co., 711 Bankhead Ave. NW, Atlanta, 18
Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
Old Empire, Inc., 865 Mt. Prospect Ave., Newark, N. J.
Olin Mathieson Chem. Corp., 745 5th Ave., N. Y. 22
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City, N. J.
Ottawa Chem. Co., 823 Hamilton St., Toledo 7, O.
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis 15
Pilot Chem. Co. of Cal., 215 W. 7th St., Los Angeles 14

DETERGENTS, SYNTHETIC (Finished), LIQUID, SUDSING (Contd.)

Process Chems. Co., 8733 S. Dice Rd., Los Angeles, Calif.
 Procter & Gamble Dist. Co., Cincinnati
 Purex Corp., 9300 Rayo Ave., South Gate, Calif.
 Puro Co., 2801 Locust St., St. Louis, Mo.
 Refined Prods., Inc., 624 Schuyler St., Lyndhurst, N. J.
 Reily Chemical Co., P. O. Box 98, New Orleans
 S. & S. Soap Co., 815 E. 135th St., N. Y. 54
 Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
 Stanalchem Inc., 350 Madison Ave., N. Y. 17
John T. Stanley, Inc., 642 W. 30th St., N. Y. 1
Stepan Chem. Co., 427 W. Randolph St., Chicago
 Surety Laboratories, 3946 Olive St., St. Louis 8
 Surfaco Co., Inc., Box 114, Blue Island, Ill.
Swift & Co., Chicago
 Tex-ite Prods. Corp., 859 E. 43 St., Brooklyn 10
Trepow Chemical Co., 59 Camden St., Paterson, N. J.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
 James Varley & Sons, 1200 Switzer Ave., St. Louis
 Veneer-O-Wax Corp., 2010 E. Fletcher St., Phila.
 Roy Wilson Mfg. Co., Archer Ave., Chicago 8
Witco Chem. Co., 122 E. 42nd St., N. Y. 17

DETERGENTS, SYNTHETIC (Finished), powder, low-sudsing

ABC Compounding Co., Oakcliff & Harwell Rds., S.W., Atlanta, Ga.
 Armour & Co., 1355 W. 31st St., Chicago 9
 Averil, Inc., 6780 NW 37 Ct., Miami, Fla.
 B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Britex Corp., 17 Lewis Wharf, Boston
 Chem. Service of Balto., Howard & Wests Sts., Balto.
 Clarkson Laboratories, 920 N. Darien St., Phila. 23
 Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
 E. F. Drew & Co., Boonton, N. J.
 East Coast Soap Corp., 89 Coffey St., Bklyn. 31
 Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
 Essential Chems. Co., 2200 N. 32nd St., Milwaukee 8
 Freesmeier Laboratories, 3661 Windsor Pl., St. Louis 13
 Frontier Chem. Products, Inc., 119 E. Soper St., St. Louis 11
Hewitt Soap Co., 333 Linden Ave., Dayton, O.
 Industrial Materials Co., 1017 McCall St., Houston
 J. Chem. Corp., 437—11th Ave., N. Y. 18
 Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
 Klenzade Prods., Beloit, Mich.
 Klix Chem. Co., 551 Railroad Ave., S. San Francisco
National Milling & Chem. Co., 4601 Flat Rock Rd., Phila.
 G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis 15
 Peerless Chem. Co., 1300-02 N. Fulton Ave., Baltimore
 Puro Co., 2801 Locust St., St. Louis, Mo.
 S. & S. Soap Co., 815 E. 135th St., N. Y. 54
 Southern Chem. Products Co., 170 Poplar St., Macon, Ga.
 Stanalchem Inc., 350 Madison Ave., N. Y. 17
Swift & Co., Chicago
 Tesco Chemicals, Inc., Atlanta 5, Ga.
 Tex-ite Prods. Corp., 859 E. 43 St., Brooklyn 10
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
 Virginia-Carolina Chem. Corp., 401 E. Main St., Richmond, Va.
Witco Chem. Co., 122 E. 42nd St., N. Y. 17

DETERGENTS, SYNTHETIC (Finished), powder, sudsing

ABC Compounding Co., Oakcliff & Harwell Rds., S.W., Atlanta, Ga.
 Armour & Co., 1355 W. 31st St., Chicago 9
 Averil, Inc., 6780 NW 37 Ct., Miami, Fla.
 B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Britex Corp., 17 Lewis Wharf, Boston
Chicago Sanitary Prod. Co., 3100 S. Throop St., Chicago 8
 Chem. Service of Balto., Howard & West Sts., Balto.
 Clarkson Laboratories, 920 N. Darien St., Phila. 23
 Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
Continental Oil Co., 1270 Ave. of Americas, N. Y. 20
 E. F. Drew & Co., Boonton, N. J.
 East Coast Soap Corp., 89 Coffey St., Bklyn. 31
 Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
 Essential Chemicals Co., 5906 N. Port Washington Rd., Milwaukee
 Freesmeier Laboratories, 3661 Windsor Pl., St. Louis 13
 Frontier Chem. Prods. Inc., 119 E. Soper St., St. Louis 11
 Help, Inc., 122 W. Kinzie St., Chicago
Hewitt Soap Co., 333 Linden Ave., Dayton 3, O.
 Hysan Prods. Co., 930 W. 38th Place, Chicago
 Industrial Materials Co., 1017 McCall St., Houston
 Intex Chem. Corp., 167 Main St., Lodi, N. J.
 Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.

Klenzade Prods., Beloit, Mich.
 Klix Chem. Co., 551 Railroad Ave., S. San Francisco
 Lever Brothers Co., 390 Park Ave., N. Y. 22
M. Michel & Co., 90 Broad St., N. Y. 4
 Moss Soap Co., Pinellas Int'l. Airport, St. Petersburg, Fla.
National Aniline Div., 40 Rector St., N. Y.
National Milling & Chem. Co., 4601 Flat Rock Rd., Phila.
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis 15
 Peerless Chem. Co., 1300-02 N. Fulton Ave., Baltimore
 Pilot Chemical Co. of Calif., 215 W. 7th St., Los Angeles 14
 Procter & Gamble Dist. Co., Cincinnati
 Purex Corp., 9300 Rayo Ave., South Gate, Calif.
 Puro Co., 2801 Locust St., St. Louis, Mo.
 Southern Chemical Products Co., 170 Poplar St., Macon, Ga.
 Stanalchem Inc., 350 Madison Ave., N. Y. 17
 Geo. Stearns Chem. Corp., 4200 S. Mendota St., Madison, Wisc.
 Surety Laboratories, 3946 Olive St., St. Louis 8
Swift & Co., Chicago 9
 Tesco Chemicals, Atlanta 4, Ga.
 Tex-ite Prods. Corp., 859 E. 43 St., Brooklyn 10
Trepow Chemical Co., 59 Camden St., Paterson, N. J.
 James Varley & Sons, 1200 Switzer Ave., St. Louis
 Virginia-Carolina Chem. Corp., 401 E. Main St., Richmond, Va.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Witco Chem. Co., 122 E. 42nd St., N. Y. 17

DETERGENTS, SYNTHETIC (Non-Ionic), acid derivatives

Antara Chemicals, 435 Hudson St., N. Y. 14
 Armour & Co., 1355 31st St., Chicago 9
 Atlas Powder Co., Wilmington 99, Dela.
 Blockson Chemical Co., Joliet, Ill.
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
 E. F. Drew & Co., Boonton, N. J.
 Ciba Co., Fair Lawn, N. J.
 E. I. du Pont de Nemours & Co., Wilmington
 Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
 Finetex, Inc., 418 Fairmouth Ave., East Paterson, N. J.
Geigy Industrial Chemicals, Ardsley, N. Y.
 Hodag Chem. Co., 7247 N. Central Park Ave., Chicago
 Klix Chem. Co., 551 Railroad Ave., S. San Francisco
 Krystall Chem. Co., 1301 W. Belden Ave., Chicago 14
 Marchon Products, Ltd., Whitehaven, Cumberland, Eng.
M. Michel & Co., 90 Broad St., N. Y. 4
 Monsanto Chemical Co., St. Louis 24, Mo.
 Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.
 Process Chems. Co., 8733 S. Dice Rd., Los Nietos, Calif.
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago
 Stanalchem Inc., 350 Madison Ave., N. Y. 17
Stepan Chem. Co., 427 W. Randolph St., Chicago
 Surfaco Co., Inc., Box 114, Blue Island, Ill.
Trepow Chemical Co., 59 Camden St., Paterson, N. J.
 Wilson-Martin Div., Snyder & Swanson St., Phila.

DETERGENTS, SYNTHETIC (Non-Ionic), amides and amines

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
 Antara Chemicals, 435 Hudson St., N. Y.
 Archer-Daniels-Midland Co., Minneapolis
Ardmore Chem. Co., 840 Valley Brook Ave., Lyndhurst, N. J.
 B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
 Ciba Co., Fair Lawn, N. J.
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
 Dehydag Deutsche Hydrierwerke, Dusseldorf, Germany
 E. I. du Pont de Nemours & Co., Wilmington
 Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
 Fiber Chem. Corp., Matawan, N. J.
Geigy Industrial Chemicals, Ardsley, N. Y.
B. F. Goodrich Chem. Co., 3135 Euclid Ave., Cleveland
 Hodag Chem. Corp., 7247 N. Central Park, Chicago
 Intex Chem. Corp., 167 Main St., Lodi, N. J.
 Kearny Mfg. Co., Kearny, N. J.
 Kessler Chem. Co., State Rd., Phila. 35
 Knapp Prods., Inc., Lodi, N. J.
 Krystall Chem. Co., 1301 W. Belden Ave., Chicago 14
 Marchon Prods., Ltd., Whitehaven, Cumberland, Eng.
M. Michel & Co., 90 Broad St., N. Y. 4
Miranol Chemical Co., 277 Coit St., Irvington, N. J.
 Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.
 Monsanto Chemical Co., St. Louis 24, Mo.
 Nalco Chem. Co., 6216 W. 66 Pl., Chicago
 Nopco Chem. Co., 60 Park Pl., Newark, N. J.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.
 Process Chems. Co., 8733 S. Dice Rd., Los Nietos, Calif.
 Refined Products, Inc., 624 Schuyler Ave., Lyndhurst, N. J.
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19



CONCO

High Purity

ALKANOLAMIDES

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Alkyl Sulfates

**CONTINENTAL
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ALKANOLAMIDES

CONDENSATE PE

A 1:1 molar lauric diethanolamide . . . an excellent foam stabilizer, emollient, and thickening agent . . . 90-95% amide content, lowest possible amounts of ester and FFA . . . applications include shampoos, bubble baths, household cleaners, dishwashing products, buffing compounds . . . 100% active . . . solid at room temperature . . . easily neutralized.

CONDENSATE PO

A 1:1 molar coconut oil diethanolamide containing 85-90% amide . . . very light straw in color . . . viscosity aid and foam stabilizer . . . most economical of the high purity CONDENSATE series . . . liquid at room temperature . . . wide application including cosmetic formulations, household products . . . very effective in minimum quantities. An excellent foam booster and dust laying agent for dry formulations . . . 100% active.

CONDENSATE PA

A 1:1 molar coconut diethanolamide containing 90-95% amide . . . paste at room temperature . . . good thickener, foam booster for alkyl aryl sulfonate and alkyl sulfate formulations . . . 100% active . . . low ester and FFA content.

The following CONDENSATES are exceptionally pure 2:1 molar products which are excellent detergents, wetting agents, primary and secondary emulsifiers, and foaming agents.

CONDENSATE CO

A coconut diethanolamide . . . liquid . . . outstanding detergent and heavy duty cleaner . . . Widely used in textile wet processing products, metal cleaning compounds, floor cleaners, maintenance and sanitary supply products, solvent systems, and formulated household products . . . virtually 100% active.

For floor cleaning formulations and wax stripping compounds, CONDENSATE PN is recommended.

CONDENSATE PL

A lauric diethanolamide derived from the purest lauric acid . . . an excellent detergent and foaming agent . . . exceptionally mild . . . especially recommended for clear and cream shampoos, bubble baths, and other cosmetic formulations . . . light color . . . liquid at room temperature . . . 100% active . . .

CONDENSATE PS

A coconut oil diethanolamide . . . liquid, an excellent detergent, emulsifier, and wetting agent . . . applications include textile processing, metal cleaning products, liquid and dry household products . . . 100% active.

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DETERGENTS, SYNTHETIC (Non-Ionic), AMIDES and AMINES (Contd).

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Stepan Chem. Co., 427 W. Randolph St., Chicago
Surfacto Co., Box 114, Blue Island, Ill.
Swift & Co., Chicago 9
Trepow Chemical Co., 59 Camden St., Paterson, N. J.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Van Dyk & Co., Belleville 9, N. J.
Witco Chem. Co., 122 E. 42nd St., N. Y. C.
G. S. Ziegler & Co., Box 348, Great Neck, N. Y.

DETERGENTS, SYNTHETIC (Non-Ionic), alcohols and thiols

Air Reduction Chem. Co., 150 E. 42nd St., N. Y.
American Alcolac Corp., 3440 Fairfield Rd., Baltimore
Armour & Co., 1355 W. 31st St., Chicago
Antara Chemicals, 435 Hudson St., N. Y. 14
Atlas Powder Co., Wilmington 99, Dela.
Ciba Co., Fair Lawn, N. J.
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
Dehydag Deutsche Hydrierwerke, Dusseldorf, Germany
Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
E. I. du Pont de Nemours & Co., Wilmington
Jefferson Chem. Co., 1121 Walker Ave., Houston, Tex.
Marchon Prods., Ltd., Whitehaven, Cambridge, Eng.
M. Michel & Co., 90 Broad St., N. Y. 4
Monsanto Chemical Co., St. Louis 24, Mo.
Olin Mathieson Chem. Corp., 745 5th Ave., N. Y. 22
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City, N. J.
Pennsalt Chems. Corp., 3 Penn Center, Phila.
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Stanalchem Inc., 350 Madison Ave., N. Y. 17
Stepan Chem. Co., 427 W. Randolph St., Chicago
Union Carbide Chem. Co., 30 E. 42nd St., N. Y. 17

DETERGENTS, SYNTHETIC (Non-Ionic), phenols, naphthols and alkyl phenols

Antara Chemicals, 435 Hudson St., N. Y.
Atlas Powder Co., Wilmington, Del.
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Ciba Co., Fair Lawn, N. J.
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
Dehydag Deutsche Hydrierwerke, Dusseldorf, Germany
E. F. Drew & Co., Boonton, N. J.
E. I. du Pont de Nemours & Co., Wilmington
Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
Jefferson Chemical Co., 1121 Walker St., Houston, Tex.
Nalco Chem. Co., 6216 W. 66 Pl., Chicago
Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
Olin Mathieson Chem. Corp., 745 5th Ave., N. Y. 22
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.
Oronite Chem. Co., 200 Bush St., San Francisco
Pennsalt Chems. Corp., 3 Penn Center, Phila.
Rohm & Haas Co., 222 W. Washington Square, Phila. 5
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
Stanalchem Inc., 350 Madison Ave., N. Y. 17
Stepan Chemical Co., 427 W. Randolph St., Chicago
Wyandotte Chem. Corp., Wyandotte, Mich.

DETERGENTS, SYNTHETIC (Non-Ionic), miscellaneous types

Air Reduction Chem. Co., 150 E. 42nd St., N. Y. 17
American Alcolac Corp., 3440 Fairfield Rd., Baltimore
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
American Cholesterol Prods., Talmadge Rd., Edison, N. J.
Blockson Chemical Co., Joliet, Ill.
Ciba Co., Fair Lawn, N. J.
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
E. F. Drew & Co., Boonton, N. J.
E. I. du Pont de Nemours & Co., Wilmington
Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
Fiber Chem. Corp., Matawan, N. J.
Finetex, Inc., 418 Malmouth Ave., East Paterson, N. J.
Hodag Chem. Corp., 7247 N. Central Park, Chicago
General Mills, Kankakee, Ill.
Hercules Powder Co., Wilmington, Del.
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 Miranol Chem. Co., 227 Colt St., Irvington, N. J.
 Mona Industries, 65 E. 23rd St., Paterson, N. J.
 Nalco Chem. Co., 6216 W. 66 Pl., Chicago
 Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
 Olin Mathieson Chem. Corp., 745 5th Ave., N. Y. 22
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.
 Pennsalt Chems. Corp., 3 Penn Center, Phila. 2
 Process Chems. Co., 8733 S. Dice Rd., Los Nietos, Calif.
Rohm & Haas Co., 222 W. Washington Square, Phila. 5
Sandoz, Inc., 61 Van Dam St., N. Y. 13
 Pennsalt Chemicals Corp., 3 Penn Center Plaza, Phila. 2
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
 Stanalchem Inc., 350 Madison Ave., N. Y. 17
Stepan Chem. Co., 427 W. Randolph St., Chicago
 Surfaco Co., Inc., Box 114, Blue Island, Ill.
Swift & Co., Chicago
 Tanatex Chem. Corp., Belleville Turnpike, Kearny, N. J.
 Tex-ite Prods. Corp., 859 E. 43rd St., Brooklyn 10
Treplow Chemical Co., 59 Camden St., Paterson, N. J.
Union Carbide Chems. Co., 30 E. 42 St., N. Y. 17
 Van Dyk & Co., Belleville 9, N. J.
 Victor Chem. Wks., 155 N. Wacker Dr., Chicago 5
Witco Chem. Co., 122 E. 42 St., N. Y.
 Wyandotte Chemicals Corp., Wyandotte, Mich.

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 Dicalite Div., 612 S. Flower St., Los Angeles
E. I. du Pont de Nemours & Co., Wilmington
 Eagle-Picher Co., Cincinnati, O.
Johns-Manville Prods. Corp., 22 E. 40th St., N. Y. 16
 Tamms Industries, 228 N. LaSalle St., Chicago
 Whittaker Clark & Daniels, 100 Church St., N. Y.

DICHLOROBENZENE (see Paradichlorobenzene)**DIELDRIN**

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DIELDRIN FORMULATIONS

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 Agricultural Chemicals, Inc., Greenville, Miss.
Amer. Potash & Chem. Corp., 3030 W. 6th St., Los Angeles
 Atlas Chem. Corp., Waynesboro, Ga.
Baird & McGuire, Inc., Holbrook, Mass.
 California Spray-Chemical Corp., Richmond, Calif.
 Carolina Chemicals, Inc., West Columbia, S. C.
 Chapman Chemical Co., 707 Dermon Bldg., Memphis, Tenn.
 Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
 Chipman Chemical Co., Bound Brook, N. J.
 Coahoma Chemicals, Inc., Beacon, N. Y.
 Diamond Alkali Co., Union Commerce Bldg., Cleveland
 Douglas Chem. Co., 620 E. 16th Ave., North Kan. City, Mo.
E. I. du Pont de Nemours & Co., Wilmington, Del.
 Flag Sulphur & Chem. Co., Tampa, Fla.
 Florida Agricultural Supply Co., P. O. 658, Jacksonville, Fla.
 Frontier Chem. Prods., 119 E. Soper St., St. Louis
General Chemical Div., 40 Rector St., N. Y. 6
 Hub States Chems. & Equipment, 1255 N. Windsor St., Indianapolis
McLaughlin, Gormley King Co., 1715 5th St., Minneapolis, Minn.
 Naco Fertilizer Co., Charleston, S. C.
 S. P. Penick & Co., 100 Church St., N. Y. 8
 Pittsburgh Coke & Chem. Co., Grant Bldg., Pittsburgh
 Plainsman Supply Co., Plainview, Tex.
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y.
 Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.
 Reasor-Hill Corp., Jacksonville, Ark.
 Residex Corp., 1500 Elizabeth Ave., Linden, N. J.
 Shell Chem. Corp., 460 Park Ave., N. Y.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
 Triangle Chemical Co., Macon, Ga.
 Tyner Petrus Co., W. Monroe, La.
 United-Heckathorn, 600 S. 4th St., Richmond, Calif.
 James Varley & Sons, 1200 Switzer Ave., St. Louis 15
 Virginia-Carolina Chemical Corp., Richmond, Va.
 Woolfolk Chem. Wks., Fort Valley, Ga.
 York Chem. Co., 23 Dean St., Bklyn. 1

DIES (see Soap Dies)**DIETHANOLAMINE (see listings under Ethanolamines)****DIETHYLENE GLYCOL (see under Ethylene Glycols)****DIETHYLTOLUAMIDE (Insect Repellent)**

Cowles Chemical Co., 7016 Euclid Ave., Cleveland
Hercules Powder Co., Wilmington, Del.
 R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.
McLaughlin Gormley King Co., 1715 5th St., Minneapolis

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Dula Manufacturing Co., 351 Atlantic Ave., Brooklyn
 Gallo Fumeral Co., 1312 Forest St., Racine, Wisc.
 Hydro-Mist Div., 1515 W. Glenoaks Blvd., Glendale, Calif.

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Antara Chemicals Div., 435 Hudson St., N. Y. 14
 Jefferson Chem. Co., 1121 Walker Ave., Houston, Texas
 Stepan Chem. Co., 427 W. Randolph St., Chicago

DIP TUBES, AEROSOL (see Aerosol Dip Tubes)**DIPHENYL OXIDE (see Aromatic Chemicals)****DIPROPYLENE GLYCOL**

Celanese Corp. of America, 180 Madison Ave., N. Y.
 Dow Chemical Co., Midland, Mich.
 Jefferson Chemical Co., 1121 Walker Ave., Houston, Tex.
 Olin Mathieson Chem. Corp., 745 5th Ave., N. Y.
 Union Carbide Chems. Co., 30 E. 42nd St., N. Y.

DISH WASHING COMPOUND DISPENSERS (see Soap Dispensers, Dish-washing Compound)**DISHWASHING COMPOUNDS**

ABC Compounding Co., Oakcliff & Harwell Rds., Atlanta, Ga.
 Almo Laboratories Co., 424 Madison Ave., N. Y. 17
 Amka Chemical Co., 2229 N. 29th Ave., Phoenix, Ariz.
 Armour & Co., 1355 W. 31st St., Chicago
 Arrow Chemical Products, Inc., 1067 St. Anne St., Detroit
 B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
 B. T. Babbitt, Inc., 625 Madison Avenue, New York
Baird & McGuire, Inc., Holbrook, Mass.
 Bixon Chemical Corp., 1163 Southern Blvd., New York
 Barton Chemical Co., 1230 W. 46th St., Chicago 9
Britex Corp., 17 Lewis Wharf, Boston 10
 Buckingham Wax Corp., 51-03 Van Dam, Long Island City, N. Y.
 Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.
 Chemical Service of Baltimore, Howard & West Sts., Baltimore, Md.
 Chemical Supply Co., 3540 Norton Rd., Cleveland 11
 Chicago Sanitary Products Co., 3100 S. Throop St., Chicago
 Clarkson Laboratories, 920 N. Darien St., Phila.
 Colgate-Palmolive Co., 300 Park Ave., New York
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
 Davies-Young Soap Co., 705 Albany St., Dayton, O.
 Dura Wax Co., Box 218, McHenry, Ill.
 East Coast Soap Corp., 89 Coffey St., Brooklyn, N. Y.
 Essential Chemical Co., 5906 N. Port Washington Rd., Milwaukee
 Fitzpatrick Bros., 1300 W. 32nd Pl., Chicago 8
 Frontier Chemical Prods., Inc., 119 E. Soper St., St. Louis
 Fuld Bros., 702 S. Wolfe St., Baltimore
 James Good Co., 2107 E. Susquehanna Ave., Philadelphia
 Haag Labs, 14000 S. Seeley Ave., Blue Island, Ill.
 Harley Soap Co., Pearce & Orthodox St., Philadelphia
 R. M. Hollingshead Corp., 840 Cooper St., Camden, N. J.
 Hysan Prods. Co., 930 W. 38th Place, Chicago
 Independence Chem. Co., N. Railroad & Essex Sts., Gloucester City, N.J.
 International Chemical Co., 3140 S. Canal St., Chicago
 "J" Chemical Works, 602 W. 37th St., New York 18
 Klenzade Products, Inc., Box 1020, Beloit, Wis.
 Klux Chemical Co., 551 Railroad Ave., S. San Francisco
 Lincoln Research, Inc., 3250 Monroe St., Toledo, O.
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Porex Corp., 9300 Rayo Ave., Southgate, Calif.
Peck's Products Co., 610 E. Clarence Ave., St. Louis
Peerless Chemical Co., 1300 N. Fulton Ave., Baltimore
Pioneer Mfg. Co., 3053 E. 87th St., Cleveland
Procter & Gamble Distributing Co., Cincinnati, O.
Puro Co., 2801 Locust St., St. Louis
Reily Chemical Co., Box 98, New Orleans, La.
S. & S. Soap Co., 815 E. 135th St., N. Y. 54
Southern Chemical Prod. Co., 170 Poplar St., Macon, Ga.
John T. Stanley Co., 642 W. 30th St., New York
George Stearns Chemical Corp., Madison, Wis.
Swift & Co., Chicago
Tex-ite Prods. Corp., 859 E. 43rd St., Brooklyn 10
Thompson-Hayward Chemical Co., 2915 SW Blvd., Kansas City, Mo.
Time Chemical, Inc., 4350 S. Wolcott Ave., Chicago 9
Trio Chemical Works, 341 Scholes St., Brooklyn, N. Y.
Ultra Chemical Works, 2 Wood St., Paterson, N. J.
Uncle Sam Chemical Co., 575 W. 131 St., New York
James Varley & Sons, 1200 Switzer Ave., St. Louis
Virginia-Carolina Chemical Corp., Richmond, Va.
Roy Wilson Mfg. Co., 2541 Archer Ave., Chicago
Wyandotte Chemicals Corp., Wyandotte, Mich.

DISHWASHING RINSE INJECTORS (see Rinse Injectors)

DISINFECTANTS, CHLORINATED

Antara Chemicals Div., 435 Hudson St., N. Y. 14
B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Baird & McGuire, Inc., Holbrook, Mass.
Barton Chemical Co., 1230 W. 46th St., Chicago 9
Blockson Chemical Co., Joliet, Ill.
Buckingham Wax Co., 51-03 Van Dam St., Long Island City, N. Y.
Chem. Service of Baltimore, Howard & West Sts., Baltimore
Chemo Puro Mfg. Corp., 60 E. 42nd St., N. Y. C.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Clarkson Laboratories, 920 N. Darien St., Phila.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours Co., Wilmington, Del.
Fuld Bros., 702 S. Wolfe St., Baltimore
Haag Laboratories, 14000 S. Seeley Ave., Blue Island, Ill.
Harley Soap Co., Pierce & Orthodox Aves., Phila., 37
Heyden Newport Chemical Corp., 342 Madison Ave., N. Y. 17
Higley Chemical Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
Hysan Products Co., 930 W. 37th Place, Chicago
Industrial Materials Co., 1017 McCall St., Houston
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Midland Labs., Dubuque, Iowa
Monsanto Chemical Co., St. Louis 24, Mo.
National Chemical Laboratories, 825 Lombard St., Phila.
National Milling & Chem. Co., 4601 Flat Rock Rd., Phila. 27
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.
North Coast Soap & Chem. Works, Seattle, Wash.
Oil Kraft, Inc., 3330 Beekman St., Cincinnati
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.
Olin Mathieson Chem. Corp., Baltimore 3
Ottawa Chemical Co., 823 Hamilton St., Toledo, O.
Peck's Products Co., 610 E. Clarence Ave., St. Louis 15
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Puro Co., 2801 Locust St., St. Louis, Mo.
Reily Chemical Co., Box 98, New Orleans, La.
G. S. Robins & Co., 126 Chouteau Ave., St. Louis 2
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Tex-ite Prods. Corp., 859 E. 43rd St., Brooklyn 10
Thompson-Hayward Chemical Co., 2915 S.W. Blvd., Kansas City, Mo.
Trio Chem. Works, 341 Scholes St., Brooklyn
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12
Victor Chem. Works, 155 N. Wacker Dr., Chicago
James Varley & Sons, 1200 Switzer Ave., St. Louis
Westvaco Chlor-Alkali Div., 161 E. 42nd St., N. Y. 17
Wyandotte Chemicals Corp., Wyandotte, Mich.

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ABC Compounding Co., Oakcliff & Harwell Rds., Atlanta, Ga.
American British Chem. Supplies, 180 Madison Ave., N. Y.
A-M-R Chem. Co., 985 E. 35th St., Brooklyn 10
B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.

Baird & McGuire, Inc., Holbrook, Mass.
Barnett Chem. Prods. Co., 326 Lafayette Bldg., Phila. 6
Bixon Chem. Corp., 1163 Southern Blvd., N. Y. 59
Buckingham Wax Co., Van Dam St. & Borden Ave., L. I. City, N. Y.
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.
Chemical Service of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Concord Chem. Co., 205 S. 2nd St., Camden, N. J.
Wm. Cooper & Nephews, 1909 Clifton Ave., Chicago
Davies-Young Soap Co., Dayton, O.
East Coast Soap Corp., 89 Coffey St., Brooklyn 31
Emeryville Chem. Co., 405 Montgomery St., San Francisco
Emulso Corp., 301 Ellicott St., Buffalo
Fine Organics, Inc., 205 Main St., Lodi, N. J.
Freesmeier Laboratories, 3661 Windsor Pl., St. Louis 13
Fuld Bros., 702 S. Wolfe St., Baltimore
Gaylord Chem. Co., 701 Woodweather Rd., Kansas City
James Good, Inc., 2107 Susquehanna Ave., Phila.
Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.
Harley Soap Co., Pearce & Orthodox Sts., Phila. 37
Higley Chem. Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
James Huggins & Son, 239 Medford St., Malden, Mass.
Hysan Products Co., 900 W. 38th Place, Chicago
Industrial Materials Co., 1017 McCall St., Houston
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Klix Chem. Co., 551 Railroad Ave., South San Francisco, Calif.
McLaughlin, Gormley, King Co., 1715 5th St., S.E., Minneapolis
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National Chemical Laboratories, 825 Lombard St., Phila.
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J. W. Quinn Drug Co., Greenwood, Miss.
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Riverside Chem. Co., N. Tonawanda, N. Y.
Sanders Chem. Co., 2205 N. American St., Phila. 33
I. Schneid, Inc., 765 Trabert Ave., N. W., Atlanta, Ga.
Sonneborn Chem. & Refining Corp., 300 4th Ave., N. Y.
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
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Surety Laboratories, 3946 Olive St., St. Louis 8
Tex-ite Prods. Corp., 859 E. 43rd St., Brooklyn 10
Thompson-Hayward Chem. Co., 2915 S.W. Blvd., Kansas City, Mo.
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Sprayway, Inc., 7640 Vincennes Ave., Chicago 20
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B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Baird & McGuire, Inc., Holbrook, Mass.
Britex Corp., 17 Lewis Wharf, Boston.
Chemical Service of Baltimore, Howard & West Sts., Baltimore, Md.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Concord Chem. Co., 205 S. 2nd St., Camden, N. J.
Davies-Young Soap Co., Dayton, O.
Fine Organics, Inc., 211 E. 19th St., N. Y. 3
Fuld Bros., 702 S. Wolfe St., Baltimore, Md.
Haag Labs, 14000 S. Seeley Ave., Blue Island, Ill.
Hysan Products Co., 900 W. 38th Pl., Chicago
Klix Chemical Co., 551 Railroad Ave., S. San Francisco
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Reily Chemical Co., Industrial Prods. Div., P.O. Box 98, New Orleans
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Tex-ite Prods. Corp., 859 E. 43rd St., Brooklyn 10
Trio Chem. Works, 2 Wood St., Paterson, N. J.
Uncle Sam Chem. Co., 573 W. 131 St., N. Y.
James Varley & Sons, 1200 Switzer Ave., St. Louis

DISINFECTANTS, QUATERNARY AMMONIUM (see also Quaternary Ammonium Compounds)

ABC Compounding Co., Oakcliff & Harwell Rds., Atlanta, Ga.
Airkem, Inc., 241 E. 44th St., N. Y. 17
Antara Chemicals, 435 Hudson St., N. Y. 14
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 Barton Chemical Co., 1230 W. 46th St., Chicago 9
 Bixon Chem. Corp., 1163 Southern Blvd., N. Y. 59
Britex Corp., 17 Lewis Wharf, Boston
 Buckingham Wax Co., 51 Van Dam St., L. I. C., N. Y.
 Chem. Serv. of Balto., Howard & West Sts., Balto.
Chemo Puro Mfg. Corp., 60 E. 42 St., N. Y.
Chicago San. Prods. Co., 3100 S. Throop St., Chicago 8
 Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3
 Davies-Young Soap Co., Dayton 1, O.
Fine Organics, Inc., 205 Main St., Lodi, N. J.
 Frontier Chem. Prods., 119 E. Soper St., St. Louis 11
 Fuld Bros., 702 S. Wolfe St., Baltimore
Geigy Industrial Chemicals, Ardsley, N. Y.
 James Good, Inc., 2107 Susquehanna Ave., Phila. 25
 Harley Soap Co., Pearce & Orthodox Sts., Phila. 37
 R. M. Hollingshead Corp., Camden, N. J.
 Hysan Products Co., 900 W. 38th Place, Chicago
 Intex Chem. Cop., 167 Main St., Lodi, N. J.
 Klix Chem. Co., 551 Railroad Ave., South San Francisco, Calif.
 Lorenz Chem. Co., 135 N. 32nd Ave., Omaha
M. Michel & Co., 90 Broad St., N. Y. 4
 Midland Laboratories, Dubuque, Iowa
 Nalco Chem. Co., 6216 W. 66 Pl., Chicago
 National Chem. Labs., 825 Lombard St., Phila.
National Milling & Chem. Co., 4601 Flat Rock Rd., Phila. 27
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City, N. J.
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
 Puro Co., 2801 Locust St., St. Louis 3
 Rayette, Inc., 261 E. 5th St., St. Paul, Minn.
 Reilly Chemical Co., Industrial Prods. Div., P.O. Box 98, New Orleans, La.
 Rochester Sanitary Prods. Co., 846 Exchange St., Rochester, N. Y.
Rohm & Haas Co., 222 W. Washington Sq., Philadelphia
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
 Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Sterwin Chemicals, Inc., 1450 Broadway, N. Y.
 Surety Laboratories, 3946 Olive St., St. Louis 8
 Tex-ite Prods. Corp., 859 E. 43rd St., Brooklyn 10
 Thompson-Hayward Chem. Co., 2915 SW Blvd., Kansas City 8
 Trio Chemical Wks., 341 Scholes St., Bklyn. 6
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
 U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12
 James Varley & Sons, 1200 Switzer Ave., St. Louis
 Veneer-O-Wax Corp., 2010 E. Fletcher St., Phila.
 Virginia-Carolina Chem. Corp., Richmond 8, Va.
 Wyandotte Chemicals Corp., Wyandotte, Mich.

DISINFECTANTS (Other than foregoing, including basic chemical materials)

E. I. du Pont de Nemours & Co., Wilmington, Del.
 Fleetwood Prods. Co., 509 5th Ave., N. Y.
Hilton-Davis Chemical Co., 2235 Langdon Farm Rd., Cincinnati
 Monsanto Chemical Co., St. Louis 24, Mo.
 Ottawa Chem. Co., 819 Hamilton St., Toledo, O.
Sindar Corp., 321 W. 44th St., N. Y.
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DISODIUM PHOSPHATE (see Sodium Phosphate)

DISPENSERS, BOTTLE (see Sprayers and Atomizers, Bottle)

DISPENSERS, SOAP (see Soap Dispensers)

DISPENSERS, WATERLESS HAND CLEANER (see Soap Dispensers)

DISPENSERS, for DISHWASHING MACHINES (see Soap Dispensers)

DISPERSING AGENTS (See Surface Active Agents)

DISPENSING PUMPS (see Pumps, Dispensing)

DOG REPELLENTS

California Spray-Chemical Corp., Richmond, Calif.
 Davies-Young Soap Co., Dayton 1, O.
 Fuld Bros., 702 S. Wolfe St., Baltimore
 Hysan Products Co., 930 W. 38th Place, Chicago
 Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
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Drackett Co., 5020 Spring Grove, Cincinnati 32
Frontier Chem. Prods., 119 E. Soper St., St. Louis
James Good, Inc., 2107 Susquehanna Ave., Phila.
Help, Inc., 122 W. Kinzie St., Chicago
Higley Chemical Co., Dubuque, Ia.
R. M. Hollingshead Corp., Camden, N. J.
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Midland Labs., Dubuque, Iowa
North Coast Chem. & Soap Wks., Seattle, Wash.
Pennsalt Chems. Corp., 3 Penn Center, Phila. 2
Simoniz Co., 2100 Indiana Ave., Chicago 16
S. & S. Soap Co., 815 E. 135 St., N. Y. 54
Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12
Wyandotte Chemicals Corp., Wyandotte, Mich.

DRIP MACHINES

Hysan Products Co., 930 W. 37th Place, Chicago
Mollen Chem. Co., 1850 N. Uber St., Phila. 21
Puro Co., 2801 Locust St., St. Louis 3
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.

DRUM LINERS (see Liners)

DRUM PUMPS (see Pumps, Dispensing)

DRUMS, Fibre

Bennett Industries, 122 N. Washington St., Peotone, Ill.
Benton Fibre Drum Co., 186 Van Dyke St., Brooklyn 31
Buffalo-Carpenter Container Corp., P. O. Box 518, Niagara Falls, N. Y.
Carpenter Container Corp., 147 41st St., Brooklyn 32
Continental Can Co., 100 E. 42nd St., N. Y. 17
Emery-Carpenter Container Co., Carew Tower, Cincinnati
Federal Fibre Corp., 3704 10th St., L. I. C., N. Y.
Fibre Drum Co., 20 N. Wacker Dr., Chicago 6
Master Package Corp., Owen, Wisc.
Monmouth Container Corp., Matawan, N. J.
Plyfiber Container Corp., 650 South Ave., Garwood, N. J.
Rheem Mfg. Co., 1701 Edgar Rd., W., Linden, N. J.
Seymour & Peck Co., Blue Island, Ill.
Virginia Barrel Co., P. O. Box 86, Staten Island, N. Y.

DRUMS, Metal

Bennett Industries, 122 N. Washington St., Peotone, Ill.
Continental Can Co., 100 E. 42 St., N. Y. 17
Eastern Steel Barrel Corp., 3021 Lincoln Blvd., Bound Brook, N. J.
Florida Drum Co., 208 E. Liberty St., Pensacola, Fla.
Geuder, Paeschke & Frey Co., 324 N. 15 St., Milwaukee
Inland Steel Container Co., 6532 S. Menard Ave., Chicago
Jones & Laughlin Steel Corp., 3 Gateway Center, Pittsburgh
Manion Steel Barrel Co., Rouseville, Pa.
Myers Drum Co., 6549 San Pablo Ave., Oakland, Calif.
National Steel Container Corp., Chicago 38
Nesco, Inc., 270 N. 12th St., Milwaukee 1
Ohio Corrugating Co., Warren, O.
Rheem Mfg. Co., 1701 Edgar Rd., W., Linden, N. J.
Southwestern Steel Container Co., 3301 S. Lamar St., Dallas
U. S. Steel Prods. Div., 30 Rockefeller Plaza, N. Y. 20
United Steel Barrel Co., 225 S. 15th St., Phila. 2
Vulcan Containers Ltd., Box 284, Toronto, Can.
Vulcan Containers, Inc., Bellwood, Ill.
Vulcan Steel Container Co., 3315 N. 35th Ave., Birmingham, Ala.
Wheeling Steel Corp., Wheeling, W. Va.

DRY BLEACH (Basic Chemicals)

E. I. du Pont de Nemours & Co., Wilmington, Del.
Monsanto Chemical Co., St. Louis, Mo.
Westvaco Mineral Prods. Div., 161 E. 42nd St., N. Y.
Wyandotte Chems. Corp., Wyandotte, Mich.

DRY CLEANING SOAPS

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Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8

Ciba Co., Fair Lawn, N. J.
Clarkson Laboratories, 920 N. Darien St., Phila. 23
Davies-Young Soap Co., Dayton, O.
E. F. Drew & Co., Boonton, N. J.
Essential Chem. Co., 5906 N. Port Washington Rd., Milwaukee
Geigy Industrial Chemicals, Ardsley, N. Y.
Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.
Harley Soap Co., Pearce & Orthodox St., Philadelphia
Kamen Soap Prods. Co., 5-22 50 Ave., L.I.C., 1, N. Y.
Kessler Chem. Co., State Rd., Phila. 35
H. Kohnstamm & Co., 161 6th Ave., N. Y. C.
Los Angeles Soap Co., 617 E. 1st St., Los Angeles
M. Michel & Co., 90 Broad St., N. Y. 4
Midland Chem. Labs., Dubuque, Ia.
Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.
National Aniline Div., 40 Rector St., N. Y.
Nopco Chemical Co., 60 Park Pl., Newark 1, N. J.
North Coast Chem. & Soap Wks., Seattle, Wash.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Riverside Mfg. Co., 4919 Conn. St., St. Louis
Standard Soap Co., 205 S. 2nd St., Camden 1, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Tex-ite Prods. Corp., 859 E. 43rd St., Brooklyn 10
Theobald Industries, P. O. Box 72, Harrison, N. J.
Trio Chemical Wks., 341 Scholes St., Bklyn. 6
Ultra Chem. Wks., Inc., 2 Wood St., Paterson, N. J.
Warren Chem. Mfg., Norwood, Mass.
Witco Chem. Co., 122 E. 42nd St., N. Y.

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Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
Newman Tallow & Soap Machinery Co., 3601 S. Iron St., Chicago
Proctor & Schwartz, 7th St. & Tabor Rd., Philadelphia
C. G. Sargent's Sons Corp., Graniteville, Mass.
Henry Simon Ltd., Stockport, England
F. J. Stokes Machine Co., Phila. 20

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Arthur Colton Co., 3431 E. Lafayette, Detroit
Ellis Dryer Co., 2444 N. Pulaski Ave., Chicago
Houchin Division, 300 Straight St., Paterson, N. J.
Industrial Process Engineers, 8 Lister Ave., Newark 5, N. J.
J. H. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.
G. Mazzoni, Busto Arsizio, Italy
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
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Dobbins Div.—Chamberlain Corp., Waterloo, Iowa
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Getz Exterminators, Inc., 2234 Olive St., St. Louis 3
Hub States Chems. & Equipment, 1255 N. Windsor St., Indianapolis
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago
R. C. Can Co., 9430 Page Blvd., St. Louis
Root-Lowell Corp., 445 N. Lake Shore Dr., Chicago
D. B. Smith & Co., 414 Main St., Utica, N. Y.

DYES (see Colors)

EMULSIFIER INTERMEDIATES

American Alcolac Corp., 3440 Fairfield Rd., Baltimore
Antara Chemicals, 435 Hudson St., N. Y.
Archer-Daniels-Midland Co., Minneapolis, Minn.

EMULSIFIER INTERMEDIATES (Contd.)

Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
 Atlantic Refining Co., 260 S. Broad St., Phila.
 Continental Chem. Co., 195 21 Ave., Paterson, N. J.
 Continental Oil Co., 1270 Ave. of Americas, N. Y. 20
 Commercial Solvents Corp., 260 Madison Ave., N. Y.
 Dehydag Deutsche Hydrierwerke, Dusseldorf, Germany
 Dow Chem. Co., Midland, Mich.
 Emery Industries, Inc., 4200 Carew Tower, Cincinnati
 Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
 B. F. Goodrich Chem. Co., 3135 Euclid Ave., Cleveland
 Hodag Chem. Corp., 7247 Central Park, Chicago
 Jefferson Chemical Co., 1121 Walker Ave., Houston, Tex.
 Marchon Prods., Whitehaven, Cumberland, England
 M. Michel & Co., 90 Broad St., N. Y. 4
 Monsanto Chemical Co., St. Louis 24, Mo.
 Nitrogen Div., 40 Rector St., N. Y. 6
 Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.
 Nalco Chem. Co., 6215 W. 66 Pl., Chicago
 Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City, N. J.
 Oronite Chem. Co., 200 Bush St., San Francisco
 Process Chems. Co., 8733 S. Dice Rd., Los Nietos, Calif.
 Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
 Swift & Co., 1834 165th St., Hammond, Ind.
 Sonneborn Chem. & Refin'g Corp., 300 4th Ave., N. Y. 10
 Stepan Chem. Co., 427 W. Randolph St., Chicago
 Tanatex Chem. Corp., Belleville Turnpike, Kearny, N. J.
 Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17
 Van Dyk & Co., Belleville 9, N. J.
 Witco Chem. Co., 122 E. 42 St., N. Y. 17
 Wyandotte Chemicals Corp., Wyandotte, Mich.

EMULSIFYING AGENTS

American Alcolac Corp., 3440 Fairfield Rd., Balto.
 American Cholesterol Prods., Talmadge Rd., Edison, N. J.
 American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
 Antara Chemicals, 435 Hudson St., N. Y. 14
 Archer-Daniels-Midland Co., Minneapolis 2
 Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
 Atlantic Refining Co., 260 S. Broad St., Philadelphia
 Atlas Powder Co., Wilmington, Del.
 Ciba Co., Fair Lawn, N. J.
 Commercial Solvents Corp., 260 Madison Ave., N. Y.
 Continental Chem. Co., 195 21 Ave., Paterson, N. J.
 Continental Oil Co., 1270 Ave. of Americas, N. Y.
 Dehydag Deutsche Hydrierwerke, Henkelstrasse 67, Dusseldorf, Germany
 Dow Chem. Co., Midland, Mich.
 Dispersant Co., Box 55, Guilford, Conn.
 Dragoco, Inc., 250 W. Broadway, N. Y. 13
 E. F. Drew & Co., Boonton, N. J.
 E. I. du Pont de Nemours & Co., Wilmington, Del.
 Emery Industries, Inc., 4300 Carew Tower, Cincinnati
 Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
 Enjay Co., 15 W. 51st St., N. Y. 19
 Fine Organics, Inc., 211 E. 19th St., N. Y. 3
 Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
 Geigy Industrial Chemicals, Ardsley, N. Y.
 General Mills, Inc., Kanakee, Ill.
 B. F. Goodrich Chem. Co., 3135 Euclid Ave., Cleveland
 Glyco Chemicals Div., 417 5 Ave., N. Y.
 Hodag Chem. Corp., 7247 N. Central Park, Chicago
 Jefferson Chem. Co., 1121 Walker Ave., Houston, Tex.
 Hercules Powder Co., Wilmington, Dela.
 Kessler Chem. Co., State Rd. & Cottman Ave., Phila. 35
 M. Michel & Co., 90 Broad St., N. Y.
 Miranol Chemical Co., 277 Coit Ave., Irvington, N. J.
 Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.
 Nalco Chem. Co., 6216 W. 66 Pl., Chicago
 National Aniline Div., 40 Rector St., N. Y.
 National Southern Products, Tuscaloosa, Ala.
 Nopco Chemical Co., 60 Park Pl., Newark, N. J.
 Olin Mathieson Chem. Co., 745 5th Ave., N. Y. 22
 Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City 2, N. J.
 Pennsylvania Refining Co., Butler, Pa.
 Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila. 2
 Pilot Chemical Co. of Cal., 215 W. 7th St., Los Angeles 14
 Philadelphia Quartz Co., Public Ledger Bldg., Independence Sq., Phila. 6
 Process Chems. Co., 8733 S. Dice St., Los Nietos, Calif.
 Quaker Chem. Prods., Conshohocken, Pa.
 Rayette, Inc., 261 E. 5th St., St. Paul, Minn.
 Refined Products Corp., 624 Schuyler Ave., Lyndhurst, N. J.
 Robinson, Wagner Co., 628 Waverly Ave., Mamaroneck, N. Y.
 Rohm & Haas Co., 222 W. Washington Sq., Phila.
 Sandoz, Inc., 61 Van Dam St., N. Y. 13
 Sinclair Petrochem., Inc., 600 5th Ave., N. Y. 20
 Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19

Sonneborn Chem. & Refin'g Corp., 300 4th Ave., N. Y.
 Stanalchem Inc., 350 Madison Ave., N. Y. 17
 Stepan Chemical Co., 427 W. Randolph St., Chicago
 Sun Oil Co., 1608 Walnut St., Phila. 3
 Surfaco Co., Box 114, Blue Island, Ill.
 Swift & Co., Hammond, Ind.
 Synthetic Chemicals, Inc., Paterson 4, N. J.
 Tanatex Chem. Corp., Belleville Turnpike, Kearny, N. J.
 Tennessee Corp., 619 Grant Bldg., Atlanta, Ga.
 Trepiow Chemical Co., 59 Camden St., Paterson, N. J.
 Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
 Union Carbide Chems. Co., 30 E. 42 St., N. Y. 17
 Van Dyk & Co., Belleville, N. J.
 R. T. Vanderbilt Co., 230 Park Ave., N. Y.
 Victor Chemical Works, 155 N. Wacker Dr., Chicago 6
 Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
 Wilson-Martin Div., Snyder & Swanson, Phila.
 Witco Chem. Co., 122 E. 42nd St., N. Y. 17
 Woburn Chemical Corp., Harrison, N. J.
 Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

EMULSION STABILIZERS

American Alcolac Corp., 3440 Fairfield Rd., Baltimore
 American Cholesterol Prods., Talmadge Rd., Edison, N. J.
 Antara Chemicals, 435 Hudson St., N. Y.
 Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
 Atlas Powder Co., Wilmington, Del.
 Commercial Solvents Corp., 260 Madison Ave., N. Y.
 Continental Chem. Co., 195 21 Ave., Paterson, N. J.
 Dehydag Deutsche Hydrierwerke, Dusseldorf, Germany
 Dow Chem. Co., Midland, Mich.
 Eastman Chem. Prods., Kingsport, Tenn.
 Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
 Geigy Industrial Chemicals, Ardsley, N. Y.
 Glyco Chemicals Div., 417 5 Ave., N. Y.
 B. F. Goodrich Chem. Co., 3135 Euclid Ave., Cleveland
 Hysan Products Co., 930 W. 37th Place, Chicago
 Hodag Chem. Corp., 7247 N. Central Park, Chicago
 Kessler Chem. Co., State Rd., Phila. 35
 M. Michel & Co., 90 Broad St., N. Y. 4
 Monsanto Chem. Co., St. Louis
 Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
 Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City, N. J.
 Rayette, Inc., 261 E. 5th St., St. Paul, Minn.
 Refined Prods. Corp., 624 Schuyler Ave., Lyndhurst, N. J.
 Robinson, Wagner Co., 628 Waverly Ave., Mamaroneck, N. Y.
 Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
 Union Carbide Chems. Co., 30 E. 42 St., N. Y. 17
 R. T. Vanderbilt Co., 230 Park Ave., N. Y. 17
 Wilson-Martin Div., Snyder & Swanson, Phila.
 Witco Chem. Co., 122 E. 42nd St., N. Y. 17

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 Velsicol Chem. Corp., 330 E. Grand Ave., Chicago

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Blaw-Knox Co., Chicago
 William Garrigue & Co., 9 S. Clinton St., Chicago
 Girdler Process Equipment Div., Louisville, Ky.
 Industrial Process Engineers, 8 Lister Ave., Newark, N. J.
 G. Mazzoni, Busto Arsizio, Italy
 Foster D. Snell, 29 W. 15th St., N. Y. 11
 Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

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 Alpine Aromatics, Inc., 398 Main St., Metuchen, N. J.
 American Aromatics, Inc., 24 E. 21st St., N. Y. 10
 Aromatic Products, Inc., 235 4th Ave., N. Y. 3
 Berje Chem. Products, 359 West Broadway, N. Y. 13
 W. J. Bush & Co., 137 Boston Post Rd., Cos Cob, Conn.
 Camilli, Albert & Laloue, 15 E. 48th St., N. Y. 17
 Charabot & Co., 114 E. 25th St., N. Y.
 Antoine Chiris Co., Inc., 220 E. 23rd St., N. Y.
 Consumers Import Co., 350 Fifth Ave., N. Y.
 Pierre Coutin Associates, 118 E. 28th St., N. Y.
 Gerard J. Danco Int. Corp., 15 E. 19th St., N. Y. C.
 DeLaire, Inc., 240 W. 30th St., N. Y.
 Descollonges, Inc., 160 5th Ave., N. Y. 10
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Esterification and Condensation

Oleic acid forms esters readily with the great variety of alcohols, glycols, glycerine and other polyols. Its color stability resists the darkening effect of processing heat and its long chain gives a desirable balance of hydrophilic and hydrophobic properties to surface-active materials.

The utility of esters and condensates is wide in scope, encompassing emulsifiers, detergents, plasticizers, lubricants, hydraulic fluids, wetting agents, sudsing agents, and softeners.



Double Bond Reactions

The activity of the unsaturated linkage between the 9th and 10th carbon atoms widens considerably the utility of oleic acid compared with saturated materials. Of the many reactions possible, sulfation, hydrogenation, oxidation, halogenation and epoxidation have proven the most fruitful. Sulfonated oleic acid and its esters for textile products are good examples of commercial utility.



Physical Nature

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Why Emersol® Oleic Acid?

Today, large quantities of very high quality oleic acid are available from a good many producers. But Emery, having pioneered and specialized in fatty acids for over 100 years, has maintained a distinct technological edge in the refinement of oleic acids. Thanks to the modern high pressure splitting process and the Emersol Process of selective solvent crystallization, Emery has now pushed purity frontiers almost to their theoretical limits. That's why Emersol Oleic Acid offers you many little "extras" in performance—at no more cost than similar competitive grades.

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In many premium products, such as high quality toiletries, lack of color is the hallmark of purity. In applications where light color is essential, Emersol Oleic Acid's extra lightness can be easily proved, grade for grade, by either spectrophotometric or colorimetric methods.

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Oxidation Stability

Emersol Oleic Acid effectively resists attack by air even through long storage periods. This means more protection against deterioration through changes in color, clarity, emulsion, texture and consistency. So, if your product faces a shelf life problem, Emersol Oleic Acids are your best protection.

Samples and Literature

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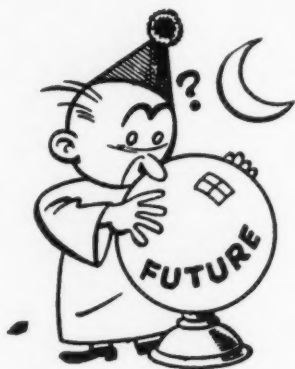
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SOAP & CHEMICAL SPECIALTIES BLUE BOOK

254 West 31st Street

New York 1, N. Y.

FATTY ACIDS (Contd.)

Baker Castor Oil Co., 40 Ave. A, Bayonne, N. J.
Capital City Prods. Co., 525 W. 1st St., Columbus 16, O.
Celina Stearic Acid Co., Celina, Ohio.
Concord Chem. Co., 205 S. 2nd St., Camden 1, N. J.
Cowles Chem. Co., 7016 Euclid Ave., Cleveland 3
Darling & Co., 4201 So. Ashland Ave., Chicago
Dehydag Deutsche Hydrierwerke, Dusseldorf, Germany
E. F. Drew & Co., Boonton, N. J.
Eastern Industries, Inc., Ridgefield, N. J.
Emery Industries, Inc., 4300 Carew Towers, Cincinnati
Foremost Food & Chem. Co., Oakland, Calif.
Glidden Co., Jacksonville 1, Fla.
A. Gross & Co., 295 Madison Ave., N. Y.
Harchem Div., 25 Main St., Belleville 9, N. J.
Hercules Powder Co., Wilmington
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
M. Michel & Co., 90 Broad St., N. Y. 4
National Southern Products, Tuscaloosa, Ala.
Pennotex Oil Corp., Box 187, Sparta, N. J.
Procter & Gamble Dist. Co., Cincinnati, O.
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.
Swift & Co., Hammond, Ind.
Theobald Industries, P. O. Box 72, Harrison, N. J.
Trendex Div., P. O. Box 4607, Memphis, Tenn.
Union Bag-Camp Paper Corp., 233 Broadway, N. Y.
Vegetable Oil Prods., 5568 E. 61 St., Los Angeles
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Wilson-Martin Div., Snyder Ave. & Swanson St., Phila.
Woburn Chemical Corp., 1200 Harrison Ave., Kearny, N. J.
G. S. Ziegler & Co., Box 348, Great Neck, N. Y.

FATTY ACIDS, HYDROGENATED

Archer-Daniels-Midland Co., Minneapolis 2
Armour Industrial Chemical Co., 110 N. Wacker Dr., Chicago
Baker Castor Oil Co., 40 Ave. A, Bayonne, N. J.
Concord Chem. Co., 205 S. 2nd St., Camden 1, N. J.
Darling & Co., 4201 S. Ashland Ave., Chicago 9
Eastern Industries, Inc., Ridgefield, N. J.
Emery Industries, Carew Tower, Cincinnati
A. Gross & Co., 295 Madison Ave., N. Y. 17
Harchem Div., 25 Main St., Belleville 9, N. J.
M. Michel & Co., 90 Broad St., N. Y. 9
Swift & Co., Hammond, Ind.
Theobald Industries, P. O. Box 72, Harrison, N. J.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Wilson-Martin Div., Snyder & Swanson, Phila.
Woburn Chemical Corp., 1200 Harrison Ave., Kearny, N. J.

FATTY ACID PLANTS (Engineering)

Blaw-Knox Co., Chicago
William Garrigue & Co., 9 S. Clinton St., Chicago
Girdler Process Equipment Div., Louisville, Ky.
Industrial Process Engineers, 8 Lister Ave., Newark, N. J.
G. Mazzoni, Busto Arsizio, Italy
Foster D. Snell, 29 W. 15th St., N. Y. 11
Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

FATTY ACID ESTERS

Air Reduction Chem. Co., 150 E. 42 St., N. Y. 17
Antara Chemicals, 435 Hudson St., N. Y.
Atlas Powder Co., Wilmington, Dela.
Baker Castor Oil Co., 40 Ave. A, Bayonne, N. J.
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
E. F. Drew & Co., Boonton, N. J.
Emery Industries, Carew Tower, Cincinnati 2
Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
Foremost Food & Chem. Co., Oakland, Calif.
Geigy Industrial Chemicals, Ardsley, N. Y.
Givaudan-Delawanna, Inc., 321 W. 44th St., N. Y.
Glidden Co., Jacksonville 1, Fla.
Glyco Chemicals Div., 417 5th Ave., N. Y.
Harchem Div., 25 Main St., Belleville 9, N. J.
Hodag Chem. Corp., 7247 N. Central Park Ave., Chicago 45
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
Kessler Chem. Co., State Rd. & Cottman Ave., Phila. 35
Marchon Prods., Ltd., Whitehaven, Cumberland, England.
National Aniline Div., 40 Rector St., N. Y.
National Southern Products, Tuscaloosa, Ala.
Pacific Vegetable Oil Corp., 1145 S. 10 St., Richmond, Calif.



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A complete line of *distilled*, extremely light colored fatty acids including a brand new product, Wilmar 272 Ester Grade Stearic Acid of high quality and economy—for use in cosmetics, esters and many other applications.

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GMS GMO GTO GML

Stearates, Oleates and Laurates of Glycerine for food products, cosmetics and industrial applications, including "Hi-Mono" content esters.

WILMAR ALCOHOL ESTERS—PLASTICIZERS

Butyl Stearate	Butyl Oleate
Propyl Oleate	Isopropyl Oleate
Isopropyl	Isopropyl Palmitate
Myristate	Plasticizers

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Glycol, Polyethylene Glycol, Propylene Glycol Esters. A full line of light colored non-ionic surface active agents from Wilmar fatty acids and glycols.

WILMAR "WILIMIDS"

A series of nitrogen derivatives of fatty acids with cationic surface activity.

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Div. of WILSON & CO., Inc.

PRODUCTS AND SERVICES WE OFFER TO CHEMICAL SPECIALTY MAKERS:

fatty alcohols: complete range of NF, USP, TGA, and tech. grades
n-octyl alcohol: primary normal capryl alcohol, 6-carbon chain
n-decyl alcohol: primary normal decanol, purity exceeds 90%
lauryl alcohol: various standard commercial technical grades
myristyl alcohol: white flaked or cast low melting point wax
cetyl alcohol: TGA and NF grades in flake or micronized powder
stearyl alcohol: USP and technical grades, 100 pounds to carload
oleyl alcohol: clear liquid unsaturated normal aliphatic alcohol
arachidyl alcohol: 20-carbon chain unsaturated aliphatic alcohol
behenyl alcohol: highly unsaturated higher alcohol, pilot lots
mixtures: custom-made to your specifications at moderate cost

FATTY ALCOHOL DERIVATIVES: CUSTOM MADE TO YOUR SPECIFICATIONS

alkyl halides: bromides and chlorides on custom reaction basis
cetyl bromide: high purity for use as chemical intermediate
cetyl chloride: available for manufacture of quaternary salts
cetyl pyridinium bromide: germicidal grade light-colored powder
cetyl trimethyl ammonium bromide: mixed alkyls also available
triethanolamine lauryl sulfate: low cloud point shampoo base
sodium cetyl sulfate: low salt content, uniform lot to lot
oleyl oleate: plasticizer intermediate and wetting agent
cetyl palmitate: interesting additive for liquid cosmetics
myristyl myristate: emulsion stabilizer for pharmaceuticals
spermaceti: general purpose workhorse of the cosmetic industry
tallow alcohol: low cost stearyl-cetyl blends for tonnage users

SURFACTANTS: LIQUIDS, FLAKES, POWDERS, PASTES, SLURRIES, BLENDS

alkyl aryl sulfonates: light color, free flowing, bland odor
alkyl naphthalene sulfonates: highly effective non-foaming wetters
amide condensates: cationic softeners and anti-static agents
amide sulfates: high foaming paste or powder detergents, wetters
amine sulfates: dispersants and levelers for textile processing
fatty acid condensates: finishing agents for synthetic fabrics
quaternary ammonium compounds: low toxicity germicidal wetter
sodium dodecylbenzene sulfonate: choice of two concentrations
sodium lauryl sulfate: low salt, high active, cosmetic grades
sodium toluene sulfonate: coupling agent for blending surfactants
sodium xylene sulfonate: solubilizer in liquid detergent formulae
anionics: surfactants in paste, liquid, powder, or flake form
cationics: anti-static agents, plasticizers, softeners, bases
non-ionics: liquid surfactants for high wetting or foaming
amphoteric: pH variations alter ionic character of compounds

CHEMICAL SPECIALTIES: FINISHED PROD. & INTERMEDIATES TO ORDER

anti-caking agents: specialized additives for powders and flakes
anti-foaming agents: for paper, oil, and textile industries
anti-static agents: controllers for plastics, films, extrusions
bleaching assistants: part of a full line of wet processing aids
caprylic acid: high purity fatty acid on special order
corrosion inhibitors: metal working, lubricating, cooling systems
cosmetic bases: compounded to order on private label basis
detergents: full line for industrial compounds and users
dispersants: acid and alkali resistant for O/W and W/O systems
dye assistants: fixatives, solubilizers, and stabilizers
emulsifiers: compounded to order for your application
fabric finishes: cotton, wool, nylon, dacron, orlon, acetate
fatty esters: uniform bulk tonnage of methyl esters
finishing agents: anti-statics, coatings, softeners
flotation reagents: specialty surfactants for ore treatment
glyceryl monostearate: food grades made from natural fats
intermediates: organic and inorganic custom reactions
lauric acid: high purity fatty acid for tonnage users
lube additives: intermediates for making viscosity reducers
mold release agents: rubber and plastic integral additives
myristic acid: high purity fatty acid for tonnage users
oil specialties: penetrants, cutting additives, emollients
oleic acid: natural fat derivative for edible applications
palmitic acid: high purity fatty acid for tonnage users
paper softeners: toweling and tissue finishing agents
penetrants: for use in aqueous and non-aqueous systems
plasticizers: paper, rubber, plastic, cosmetic, textile
resin emulsions: wash-wear and drip-dry fabric finishes
solubilizers: greater penetration for cosmetic grade dyes
stabilizers: increase shelf life of drugs and cosmetics
synergists: action boosters and couplers for detergents
synthetic resins: emulsions for paper and textile coatings
textile processing auxiliaries: anionic, cationic, non-ionic
water repellants: non-permanent water dispersible additives
wax specialties: food grade additives and paper coatings
wetting agents: metallurgical, paper, and textile processing

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 **MICHEL**
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 Robinson, Wagner Co., 628 Waverly Ave., Mamaroneck, N. Y.
 Onyx Oil & Chem. Co., Warren & Norris Sts., Jersey City, N. J.
 Pennotex Oil Corp., Box 187, Sparta, N. J.
 Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
 Swift & Co., Hammond, Ind.
 Theobald Industries, P. O. Box 72, Harrison, N. J.
 Van Dyk & Co., Belleville 9, N. J.
 Vegetable Oil Prods., 5568 E. 61st St., Los Angeles
 Wilson-Martin Div., Snyder & Swanson, Phila.
 Witco Chem. Co., 122 E. 42nd St., N. Y. 17
 Woburn Chem. Corp., 1200 Harrison Ave., Kearny, N. J.
 G. S. Ziegler & Co., Box 348, Great Neck, N. J.

FATTY ALCOHOLS

Aceto Chem. Co., 40-40 Lawrence St., Flushing, N. Y.
 Amato Agency, 11 Broadway, N. Y. 4
 American Alcolac Corp., 3440 Fairfield Rd., Baltimore
 Antara Chemicals Div., 435 Hudson St., N. Y.
 Archer-Daniels-Midland Co., Minneapolis
 American Int'l. Prods. Corp., 138 Liberty St., N. Y.
 Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
 Continental Oil Co., 1270 Ave. of Americas, N. Y.
 Croda, Inc., 15 E. 26 St., N. Y.
 Delhydag Deutsche Hydrierwerke, Henkelstrasse 67, Dusseldorf, Germany
 E. I. du Pont de Nemours & Co., Wilmington, Del.
 Harchem Div., 25 Main St., Belleville 9, N. J.
 Marchon Prods. Ltd., Whitehaven, Cumberland, England
 M. Michel & Co., 90 Broad St., N. Y. 4
 Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
 Robinson, Wagner Co., 628 Waverly Ave., Mamaroneck, N. Y.
 Stanalchem Inc., 350 Madison Ave., N. Y. 17
 Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17
 Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
 Woburn Chemical Corp., Harrison, N. J.

FATTY AMIDES AND AMINES

American Alcolac Corp., 3440 Fairfield Rd., Baltimore
 Archer-Daniels-Midland Co., Minneapolis, Minn.
 Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
 Darling & Co., 4201 S. Ashland Ave., Chicago
 Emery Industries, Inc., Carew Tower, Cincinnati
 Fine Organics, Inc., 205 Main St., Lodi, N. J.
 Geigy Industrial Chemicals, Ardsley, N. Y.
 General Mills, Kankakee, Ill.
 Harchem Div., 25 Main St., Belleville, N. J.
 Hercules Powder Co., Wilmington, Dela.
 Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
 Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
 Swift & Co., Hammond, Ind.
 Stepan Chemical Co., 427 W. Randolph St., Chicago
 Wilson-Martin Div., Snyder Ave. & Swanson St., Phila.

FILLERS (Soap Fillers)

American Colloid Co., 5100 Suffield Ct., Skokie, Ill.
 California Industrial Minerals Co., Friant, Calif.
 Carolina Pyrophyllite Co., 10 E. 40th St., N. Y. 16
 Chas B. Chrystal Co., 53 Park Pl., N. Y.
 Dicalite Div., 612 S. Flower St., Los Angeles, Cal.
 Johns-Manville Prods. Corp., 22 E. 40th St., N. Y.
 Minerals & Chems. Corp. of America, Menlo Park, N. J.
 Pacific Coast Pumice Co., Bishop, Calif.
 Wm. R. Rogers, 72 Park St., Beverly, Mass.
 F. E. Schundler & Co., Inc., 524 Railroad St., Joliet, Ill.
 Southern Clay Co., Aiken, S. C.
 Tamms Industries, Inc., 228 N. La Salle St., Chicago
 Universal Marble Products, Thornwood, N. Y.
 United Clay Mines Corp., 101 Oakland St., Trenton, N. J.
 R. T. Vanderbilt Co., 230 Park Ave., N. Y.
 Whittaker Clark & Daniels, 100 Church St., N. Y.

FILLING MACHINERY (for Liquids in drums, carboys, large cans, etc.)

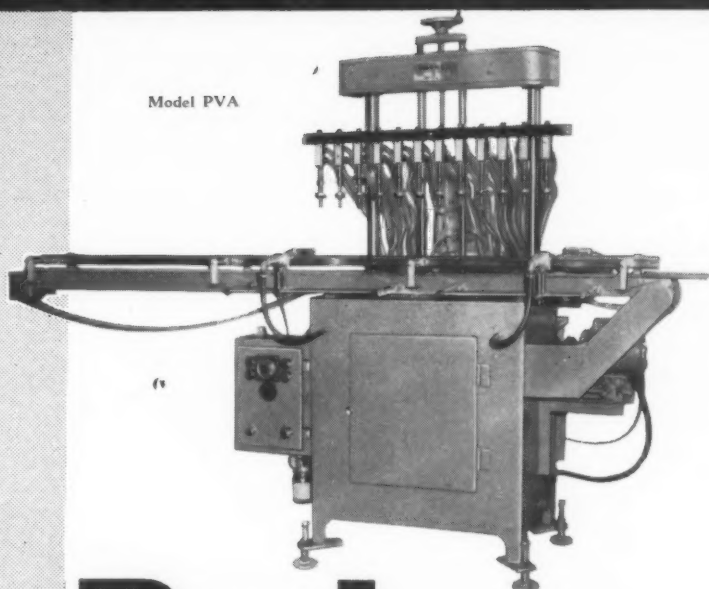
Alsop Engineering Corp., Milldale, Conn.
 Anderson Bros. Mfg. Co., 1907 Kishwaukee St., Rockford, Ill.
 Biner & Ellison, 1101 N. Main St., Los Angeles, Cal.
 Chisholm Ryder Co., Hanover, Pa.
 Arthur Colton Co., 3431 E. Lafayette, Detroit
 Filler Mach. Corp., 10 Penn Ave., Phila.

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SMALL
PACKAGER**

versatility and automation

with PACKER FILLING MACHINES

Model PVA



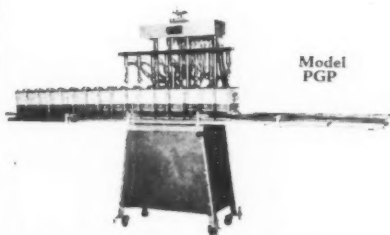
Packer's new Model PVA is a fully automatic, straightline filler...So easy to operate that any unskilled person can make the quick changeover from ounces to gallons with only a simple adjustment. A touch of the button starts the entire operation.

Model PVA fills all types of foamy and still liquids and is available in vacuum or gravity operation.

Model PVA operates pneumatically and electrically, utilizing standard stock parts that are available everywhere. There are no complicated gears, cams or starwheels to cause excessive "down-time" or inaccuracy in filling.

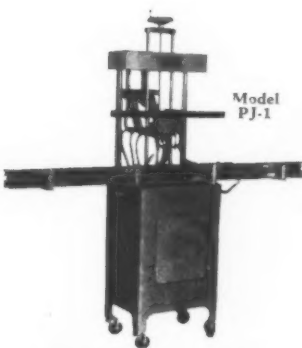
Packer

**For The Largest — Or The Smallest Filling
Job One Of These Versatile Packer Machines Can Meet Your Every Need**



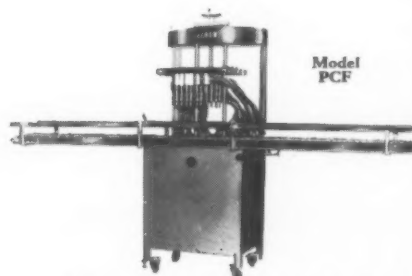
Model
PGP

A semi-automatic gravity pressure filler. Equipped with centrifugal pump and motor. Handles all types of containers including "F" style cans up to 2 gallon size.



Model
PJ-1

A portable straightline semi-automatic filler. Can be had in vacuum or gravity operation. Fills all containers up to quart in size.



Model
PCF

Packer and Case Filler Model PCF. Fills containers inside the carton. Fully adjustable from 1/2 pint to gallon. For glass, metal and plastic containers. Vacuum, gravity. Has skate wheel conveyor for easy handling of cartons.

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PACKER MACHINERY CORP.

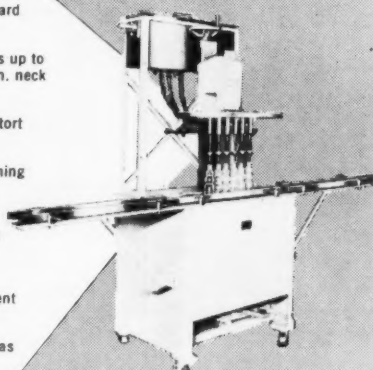
109 14th Street • Bklyn 15, N. Y. • HY 9-8850

**PACKER HAS A MACHINE TO
MEET ANY FILLING REQUIREMENT
...OR PACKER WILL DESIGN ONE FOR YOU**

NEW! ERTEL GRAVITY FILLER MODEL EGR

Features:

1. Fills cans, plastic bottles and other standard containers
2. Will fill all containers up to 1 gal. capacity with min. neck openings of 7/16"
3. Won't collapse or distort containers
4. Better for filling foaming liquids
5. Parts in contact with liquid are stainless steel
6. Drip-proof spouts
7. Lower initial investment and operating cost
8. Can also be supplied as conveyORIZED unit

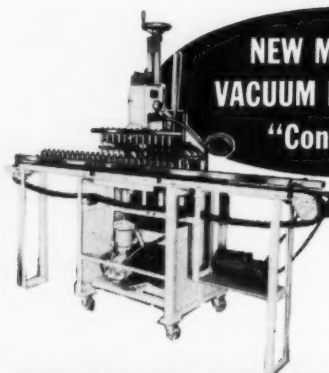


Simplicity of spout design enables quick dismantling and cleaning. Ertel specially designed spouts are known for their special seal and drip-proof features. A unique arrangement provides for easy horizontal and vertical change over. Unit is foot pedal operated.

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ENGINEERING CORP.**

WEST FRONT ST. KINGSTON, N. Y.
Mfrs. of Filters, Filter Sheets, Vacuum
Bottle Fillers, Pumps, Mixers

Write for
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EGR**
for full description



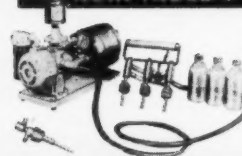
NEW MODEL ESA-C VACUUM BOTTLE FILLER "Conveyorized"

Also available
without conveyor
Conveyor has stainless
steel, Nylon or steel
chain plates. Single
wheel spout rack
control. Foot pedal
operated.

LOW PRICED EMSA FILLER

Six or more open type spouts —
with or without reservoir tanks
and overflow system.

ADAPTABLE PORTABLE



For all bottle sizes with
1. D. neck openings 1/8"
up — liquid contact parts
either stainless steel,
bronze alloy or plastic.

WRITE FOR
CATALOG 58

ERTEL
ERTEL ENGINEERING CORPORATION
Liquid Handling Equipment Manufacturers Since 1932
WEST FRONT STREET KINGSTON, N. Y.

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First Machy. Corp., 209 10 St., Bklyn. 15 (Used)
Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh 4
Karl Kiefer Machine Co., 923 Martin St., Cincinnati
Laub Engineering Co., 244 N. San Marino Ave., San Gabriel, Calif.
M-R-M- Co., 191 Berry St., Bklyn.
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
Packer Machinery Corp., 109 14th St., Bklyn.
Perl Machine Mfg. Co., 68 Jay St., Bklyn. 1
Scientific Filter Co., 57 Rose St., N. Y. 38
Stuyvesant Engineering Co., 107 Stuyvesant Ave., Lyndhurst, N. J.
Terris Div., Consolidated Siphon Supply Co., 22 Wooster St., N. Y.
Triangle Package Machinery Co., 6643 W. Diversey Ave., Chicago

FILLING MACHINERY (for Liquids, in Small Bottles, Cans)

Alsop Engineering Corp., Milldale, Conn.
Bartelt Engineering Co., 1900 Harrison Ave., Rockford, Ill.
Chisholm Ryder Co., Hanover, Pa.
Arthur Colton Co., 3431 E. Lafayette, Detroit
Consolidated Packaging Machy. Corp., 1400 West Ave., Buffalo
Ertel Engineering Corp., W. Front St., Kingston, N. Y.
Filler Mach. Corp., 10 Penn Ave., Phila.
Filpaco Industries, 2464 S. Michigan Ave., Chicago
First Machy. Corp., 209 10 St., Bklyn. 15 (Used)
Girdler Process Equipment Div., Louisville, Ky.
Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh 4, Pa.
Karl Kiefer Machine Co., 919 Martin St., Cincinnati
Laub Engineering Co., 244 N. San Marino Ave., San Gabriel, Calif.
G. Diehl Mateer Co., Wayne, Pa.
M. R. M. Co., 191 Berry St., Bklyn.
Newman Tallow & Soap Machinery Co., 3601 S. Iron St., Chicago
Packer Machinery Corp., 109 14th St., Bklyn.
Perl Machine Mfg. Co., 68 Jay St., Bklyn. 1
Pneumatic Scale Corp., Quincy 71, Mass.
Scientific Filter Co., 59 Rose St., N. Y.
Terris Div. Consolidated Siphon Supply Co., 22 Wooster St., N. Y.
U. S. Bottlers Machy. Co., 4019 N. Rockwell St., Chicago

FILLING MACHINERY (for Chips, Flakes)

Bartelt Engineering Co., 1900 Harris Ave., Rockford, Ill.
Brown Filling Machine Co., Box 452, Ann Arbor, Mich.
Clybourn Machine Corp., 6479 N. Avondale Ave., Chicago 31
Consolidated Packaging Mach. Corp., 1400 West Ave., Buffalo
First Machy. Corp., 209 10 St., Bklyn. 15 (Used)
J. L. Ferguson Co., Joliet, Ill.
FMC Packaging Mchy. Div., 4972 Summerdale Ave., Phila., Pa.
B. F. Gump Co., 1338 S. Cicero Ave., Chicago (Bbls. & Bags)
Paul L. Karstrom Co., 1824 W. 74th St., Chicago 36
Newman Tallow & Soap Machinery Co., 3601 S. Iron St., Chicago
Weigh Right Auto Scale Co., Mills Rd., Joliet, Ill.

FILLING MACHINERY (for Paste in cans, drums)

Arencos Mach. Co., 25 W. 43rd St., N. Y. 36
Bell-Pak Div., Bell Mach. Co., Oshkosh, Wisc.
Arthur Colton Co., 3431 E. Lafayette, Detroit
FMC Packaging Mchy. Div., 4972 Summerdale Ave., Phila., Pa.
First Machy. Corp., 209 10 St., Bklyn. 15 (Used)
Girdler Process Equipment Div., Louisville, Ky.
G. Diehl Mateer Co., Wayne, Pa.
Karl Kiefer Machine Co., 919 Martin St., Cincinnati 2
Laub Engineering Co., 244 N. San Marino Ave., San Gabriel, Calif.
Newman Tallow & Soap Machinery Co., 3601 S. Iron St., Chicago
Triangle Packaging Machy. Corp., 6643 W. Diversey Ave., Chicago

FILLING MACHINERY (for Pastes in Tubes)

Anderson Bros. Mfg. Co., 1907 Kishwaukee St., Rockford, Ill.
Arencos Mach. Co., 25 W. 43rd St., N. Y. 36
Cass Products Co., 27-31 Mechanic St., Buffalo
Arthur Colton Co., 3431 E. Lafayette Ave., Detroit
Filler Mach. Corp., 10 Penn Ave., Phila.
First Machy. Corp., 209 10 St., Bklyn. 15 (Used)
FMC Packaging Mchy. Div., 4972 Summerdale Ave., Phila., Pa.
Filpaco Industries, 2464 S. Michigan Ave., Chicago
Karl Kiefer Machine Co., 923 Martin St., Cincinnati
Newman Tallow & Soap Machinery Co., 3601 S. Iron St., Chicago
Perl Mach. Mfg. Co., 68 Jay St., Brooklyn 1
F. J. Stokes Machine Co., 5918 Tabor Rd., Philadelphia

FILLING MACHINERY (for free flowing dry products)

Arenco Machine Co., 25 W. 43rd St., N. Y. 36
Bartelt Engineering Co., 1900 Harrison Ave., Rockford, Ill.
Battle Creek Packaging Machines, Inc., Battle Creek, Mich.
Bel-Pak Div., Bell Mach. Co., Oshkosh, Wisc.
Brown Filling Machine Co., Box 452, Ann Arbor, Mich.
Clybourn Machine Corp., 6479 N. Avondale Ave., Chicago 31
Consolidated Package Machy. Corp., 1400 West Ave., Buffalo, N. Y.
Exact Weight Scale Co., 538 E. Town St., Columbus, O.
First Machy. Corp., 209 10 St., Bklyn. 15 (Used)
FMC Packaging Mchy. Div., 4972 Summerdale Ave., Phila., Pa.
J. L. Ferguson Co., Joliet, Ill.
Paul L. Karstrom Co., 1824 W. 74th St., Chicago
G. Diehl Mateer Co., Wayne, Pa.
Newman Tallow & Soap Machinery Co., 3601 S. Iron St., Chicago
Pneumatic Scale Corp., Quincy 71, Mass.
Sprout, Waldron & Co., Muncy, Pa.
Stuyvesant Engineering Co., Lyndhurst, N. J.
Triangle Package Machinery Co., 6643 W. Diversey Ave., Chicago
U. S. Automatic Box Machy. Co., Boston 31, Mass.
Weigh Right Automatic Scale Co., Mills Rd., Joliet, Ill.

FILTERS, Clarifying

Alsop Engineering Corp., Milldale, Conn.
Ertel Engineering Corp., W. Front St., Kingston, N. Y.
Filpaco Industries, 2464 S. Michigan Ave., Chicago
Karl Kiefer Machy. Co., 919 Martin St., Cincinnati
Scientific Filter Co., 59 Rose St., N. Y.
Terris Div. Consolidated Siphon Supply Co., 22 Wooster St., N. Y.

FILTER AIDS

American Colloid Co., 5100 Suffield Ct., Skokie, Ill.
Dicalite Div., 612 S. Flower St., Los Angeles
Eagle-Picher Co., Cincinnati 1
Filtrol Corp., 3250 E. Washington Blvd., Los Angeles
Industrial Chem. Sales Div., 230 Park Ave., N. Y.
Johns-Manville Prods. Corp., 22 East 40th St., N. Y.
Peerless Clay & Mineral Co., Pueblo, Colo.
Scientific Filter Co., 59 Rose St., N. Y. 38
Westvaco Chem. Div., 161 E. 42nd St., N. Y. 17
Whittaker, Clark & Daniels, 100 Church St., N. Y.

FILTER PRESSES

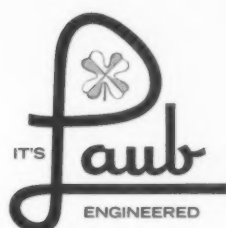
Alsop Eng. Corp., Milldale, Conn.
Ertel Engineering Corp., W. Front St., Kingston, N. Y.
Filpaco Industries, 2464 S. Michigan Ave., Chicago
First Machy. Corp., 209 10 St., Bklyn. 15 (Used)
F. R. Hormann & Co., 17 Stone St., Newark, N. J.
Karl Kiefer Machy. Co., 919 Martin St., Cincinnati
Newman Tallow & Soap Machinery Co., 3601 S. Iron St., Chicago
Scientific Filter Co., 59 Rose St., N. Y.
T. Shriver & Co., Harrison, N. J.
Sparkler Mfg. Co., 201 Lake St., Mundelein, Ill.
D. R. Sperry & Co., Batavia, Ill.
Terris Div. Consolidated Siphon Supply Co., 22 Wooster St., N. Y.
United Filter Corp., Hazelton, Pa.

FILTER SHEETS, Asbestos

Alsop Engineering Corp., Milldale, Conn.
Ertel Engineering Corp., West Front St., Kingston, N. Y.
Johns-Manville Prods. Corp., 22 E. 40th St., N. Y.
Scientific Filter Co., 57 Rose St., N. Y. 38

FIRE EXTINGUISHER FLUID

Chemical Service of Baltimore, Howard & West Sts., Balto. 30
Diamond Alkali Co., Union Commerce Bldg., Cleveland
Dow Chem. Co., Midland, Mich.
James Good Co., 2107 E. Susquehanna Ave., Philadelphia
R. M. Hollingshead Corp., 840 Cooper St., Camden, N. J.
Michigan Chemical Corp., St. Louis, Mich.
Miranol Chemical Co., 277 Coit St., Irvington, N. J.
Prior Chem. Corp., 420 Lexington Ave., N. Y.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Trio Chemical Wks., 341 Scholes St., Brooklyn 6
Uncle Sam Chemical Co., 575 W. 131st St., New York
Westvaco Chlor-Alkali Div., 161 E. 42nd St., N. Y.



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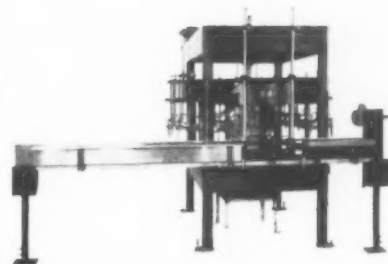
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Change all product
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Vacuum or pres-
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drip.*

*Case-at-a-Time means
saving uncasing and
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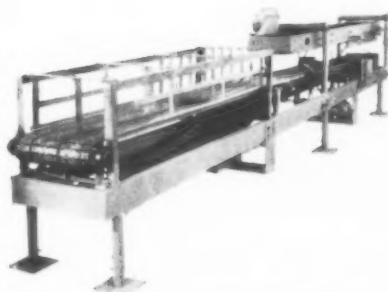
One person *unpacks
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FIRE-PROOFING COMPOUNDS

American Potash & Chemical Corp., 3030 W. 6 St., Los Angeles
Antara Chemicals Div., 435 Hudson St., N. Y. 14
Atlantic Refining Co., 260 S. Broad St., Phila.
Chem. Service of Balto., Howard & West Sts., Balto. 30
Chicago Sanitary Prods., Co., 3100 S. Throop St., Chicago
Clarkson Laboratories, 920 N. Darien St., Phila.
Diamond Alkali Co., Union Commerce Bldg., Cleveland
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
Essential Chemicals Co., 5906 N. Port Washington Rd., Milwaukee
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
Fuld Bros., 702 S. Wolfe St., Baltimore
Geigy Industrial Chemicals, Ardsley, N. Y.
Glyco Chemicals Div., 417 5th Ave., N. Y. 1
Hooker Chem. Corp., Union St., Niagara Falls, N. Y.
Hysan Products Co., 930 W. 37th Place, Chicago
Johns-Manville Prods. Corp., 22 E. 40th St., N. Y.
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Metal & Thermit Corp., Rahway, N. J.
Monsanto Chemical Co., St. Louis 24, Mo.
Niacet Chemicals Corp., Niagara Falls, N. Y.
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City 2, N. J.
Theobald Industries, P. O. Box 72, Harrison N. J.
Victor Chemical Works, 155 N. Wacker Dr., Chicago

FISH OILS

Archer-Daniels-Midland Co., Minneapolis, Minn.
Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
E. F. Drew & Co., Boonton, N. J.
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave., N. Y. 17
Haynie Prods. Inc., 108 E. York St., Baltimore
Murray Oil Products Co., 21 West St., N. Y.
Pacific Vegetable Oil Co., 1145 S. 10th St., Richmond, Calif.
J. H. Redding, Inc., 17 Battery Place, N. Y.
Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
Vegetable Oil Prods., 5568 E. 61st St., Los Angeles
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

FISH OIL SOAPS

Chicago Sanitary Prods., Co., 3100 S. Throop St., Chicago
James Good, Inc., 2107 Susquehanna Ave., Phila.
R. M. Hollingshead Corp., 840 Cooper St., Camden, N. J.
North Coast Chem. & Soap Works, Seattle, Wash.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Schaeffer Mfg. Co., 102 Barton St., St. Louis
Standard Soap Co. Div., 205 S. 2nd St., Camden, N. J.

FLOATING SOAPS

Armour & Co., 1355 W. 31st St., Chicago
Beach Soap Co., Lawrence, Mass.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Hewitt Soap Co., 333 Linden Ave., Dayton, Ohio
Kamen Soap Prods. Co., 5-22 50 Ave., L.I.C., 1, N. Y.
Lever Bros. Co., 390 Park Ave., N. Y.
Lightfoot Co., 380 Madison Ave., N. Y.
Mem Co., 67 Irving Pl., N. Y. 3
Procter & Gamble Distributing Co., Cincinnati
Schmidt Soap Prods. Co., 236 W. North Ave., Chicago
Standard Soap Co. Div., 205 S. 2nd St., Camden, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago

FLOOR FINISHES (Non-Wax)

ABC Compounding Co., Oakcliffe & Harwell Rds., Atlanta, Ga.
B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Baird & McGuire, Holbrook, Mass.
Betco Corp., 830 Elysian Ave., Toledo, O.
Bixon Chem. Corp., 1163 Southern Blvd., N. Y. 59
Buckingham Wax Co., 51-03 Van Dam St., L. I. City, N. Y.
Butcher Polish Co., 183 Commercial St., Malden, Mass.
Candy & Co., 2515 W. 35th St., Chicago
Chem. Service of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Concord Chem. Co., 205 S. 2nd St., Camden, N. J.
Davies-Young Soap Co., Dayton, O.
Du-Ev Products Co., 630 Driggs Ave., Brooklyn, N. Y.
Dura Wax Co., McHenry, Ill.

Essential Chems. Co., 5906 N. Port Washington Rd., Milwaukee
Federal Varnish Division, S. Ashland Ave., at 29th St., Chicago
Franklin Research Co., 5134 Lancaster Ave., Phila.
Freesmeier Laboratories, 3661 Windsor Pl., St. Louis 13
Frontier Chem. Prods., 119 E. Soper St., St. Louis 11
Fuld Bros., 702 S. Wolfe St., Baltimore
James Good Co., 2107 E. Susquehanna Ave., Philadelphia
Haag Labs, 14000 S. Seeley Ave., Blue Island, Ill.
Higley Chemical Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
Hysan Products Co., 930 W. 37th Place, Chicago
S. C. Johnson & Son, Inc., Racine, Wis.
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Magee Chem. Co., 325 Main St., Bensenville, Ill.
Masury Young Co., 76 Roland St., Boston 29
McAleer Mfg. Corp., 101 S. Waterman Ave., Detroit 17
Midland Labs., Dubuque, Iowa
Oil Specialties & Refining Co., 18 Bridge St., Bklyn
Old Empire, Inc., Mt. Pros. & Verona, Newark, N. J.
Peck's Products Co., 610 E. Clarence Ave., St. Louis
Puro Co., 2801 Locust St., St. Louis 3
Sanders Chem. Co., 2205 N. American St., Phila. 33
Simoniz Co., 2100 Indiana Ave., Chicago 16
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
Trio Chemical Wks., 341 Scholes St., Bklyn. 6
Uncle Sam Chemical Co., 575 W. 131st St., New York
U. S. Sanitary Spec. Corp., 1001 S. Calif., Chicago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis
Veneer-O-Wax Corp., 2010-12 E. Fletcher St., Phila. 25
T. F. Washburn Co., 2244 Elston Ave., Chicago
Windsor Wax Co., 611 Newark St., Hoboken, N. J.

FLOOR SCRUB SOAPS (see Potash Soaps)

FLOOR SEALERS (see Sealers)

FLOOR WAX APPLICATORS (see Applicators)

FLOOR WAXES

ABC Compounding Co., Oakcliffe & Harwell Rds., Atlanta, Ga.
B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Baird & McGuire, Inc., Holbrook, Mass.
Betco Corp., 830 Elysian Ave., Toledo 7
Bixon Chem. Corp., 1163 Southern Blvd., N. Y. 59
Buckingham Wax Corp., Van Dam St. & Borden Ave., L. I. City, N. Y.
Butcher Polish Co., 183 Commercial St., Malden, Mass.
Candy & Co., 2515 W. 35th St., Chicago
Cary Mfg. Co., 3559 Sweetwater Rd., Lemon Grove, Calif.
Cato Chemical Co., 116 S. York St., Elmhurst, Ill.
Chemical Service of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods., Co., 3100 S. Throop St., Chicago
Concord Chem. Co., 205 S. 2nd St., Camden, N. J.
Davies-Young Soap Co., Dayton, O.
Du-Ev Products Co., 630 Driggs Ave., Brooklyn, N. Y.
Dura Wax Co., McHenry, Ill.
Emulso Corp., 301 Ellicott St., Buffalo, N. Y.
Essential Chems. Co., 5906 N. Port Washington Rd., Milwaukee
Federal Varnish Division, S. Ashland Ave., at 29th St., Chicago
Franklin Research Co., 5134 Lancaster Ave., Phila.
Freesmeier Laboratories, 3661 Windsor Pl., St. Louis 13
Frontier Chem. Prods., 119 E. Soper St., St. Louis
Fuld Bros., 702 S. Wolfe St., Baltimore
James Good, Inc., 2107 Susquehanna Ave., Phila.
Golden Star Polish Mfg. Co., 2901 E. 13th St., Kansas City, Mo.
Haag Laboratories, Inc., 14000 Seeley Ave., Blue Island, Ill.
Harley Soap Co., Pearce & Orthodox Sts., Philadelphia
Higley Chemical Co., Dubuque, Iowa
R. M. Hollingshead Corp., Camden, N. J.
Hysan Products Co., 930 W. 37th Place, Chicago
S. C. Johnson & Son, Racine, Wisc.
Klix Chemical Co., 551 Railroad Ave., S. San Francisco
Magee Chem. Co., 325 W. Main St., Bensenville, Ill.
National Chem. Laboratories, 825 Lombard St., Phila.
Majestic Wax Co., 2139 Blake St., Denver, Colo.
McAleer Mfg. Corp., 101 S. Waterman Ave., Detroit 17
Midland Labs., Dubuque, Iowa
M. & H. Laboratories, 2703 Archer Ave., Chicago
Masury Young Co., 76 Roland St., Boston 29
National Laboratories, Inc., 4934 Lewis Ave., Toledo, O.
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.
Oil Specialties & Refining Co., 18 Bridge St., Bklyn.
Peck's Prods., 610 E. Clarence Ave., St. Louis

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PRIVATE BRAND* RESALE BUYERS OF WAXES
AND KINDRED PRODUCTS... **Your Quality Guide...**

Beauty and Durability

Initial appearance is important, but for a waxed surface to remain beautiful, it must be durable. Durability depends not only on resistance to abrasion of traffic but even more so on resistance to discoloring marks. Durability should be measured by how long the waxed surface maintains a nice appearance before complete removal and re-waxing is required.

Anti-Slip

Anti-slip, or reasonable safety underfoot, does not mean that the qualities of beauty and protection need be sacrificed. The proper balance—a wax film which is not excessively slippery, yet which is not tacky and does not collect dirt readily—gives the performance that answers the foremost original reason for use of a floor wax—beauty and protection.

Water Resistance

Frequent damp mopping or wet traffic can make water resistance very important. Overdoing this quality when no problem exists out of the ordinary, simply increases the difficulty of complete removal or applying multiple coats. Removability must be considered as important as water-resistance under most normal conditions.

Solid Content

The percentage of solid content is not nearly as important as the **quality** of the solids. Good quality indicates 12% of solids as the answer for most well planned maintenance programs. Two applications of 12% gives better results than one of 18%. "Washed out" floors and other special problems maintain better when more concentrated waxes are used. Overwaxing and resultant greater difficulty in removal for periodic maintenance should be avoided.

Carnauba Wax

The most important features of a good wax ... all-around quality of performance ... are built around Carnauba Wax. When refined and compounded with other additives and scientifically controlled in manufacture, Carnauba imparts the beauty and protection that makes the use of floor waxes both profitable and possible. Make-shift manufacture or over-emphasis on any one given wax feature should be avoided and proper care taken to provide for most satisfactory performance.

Other CANDY & CO.
HIGHEST QUALITY PRODUCTS

WATER EMULSION WAXES

Each of Candy's floor waxes are all-around top quality for certain traffic conditions. They impart the finest protection and beauty to floors for which best suited.

CANDY'S SUPREME (standard)
BRIGHT BEAUTY®
CANDY'S SUPREME Special WR
SUPER CANDI-DOX®
CANDI-DOX® #CS
CANDI-WAX #6000

CANDI-COAT 1000, WATER RESIN EMULSION—As a floor coating for use under specific conditions of continued maintenance on certain types of floors this water resin emulsion has none of the faults associated with coatings of this type. It is the finest product in its class produced up to this time.

Bright Beauty WAX REMOVER & all-purpose SURFACE CLEANER—For removal of water-emulsion waxes from any floor without harmful effects. It is the perfect maintenance program wax remover and all-purpose surface cleaner. Pleasant odor, crystal clear color and thorough cleaning action with all types of equipment. Unaffected by hard freezing. Furnished ready for resale or in concentrated form for local packaging ... nothing but water to buy or mix in.

CANDI-CLEAN all surface—all synthetic CLEANER—This is an all synthetic and all purpose surface cleaner with free rinse and free wipe off qualities. Furnished in several colors and odors, and properly priced. Available in two concentrations for resale and in concentrated form for dilution with water for local packaging.

Bright Beauty CREAM FURNITURE POLISH—A cream furniture polish that spreads easily, polishes without excessive effort to a deep impressive lustre. Permits repeated repolishing with a dry cloth, thus saving many re-applications. A very economical polish of the very highest quality.

Bright Beauty PASTE WAX—Properly blended and refined from excellent quality solids and solvents that produce the best drying time and evaporation. Easy to handle, having "creamy" consistency and stability that lasts throughout storage and usage life.

Bright Beauty LIQUID (spirit) PREPARED WAXES—A complete line of spirit dissolved waxes that meet a wide variety of demands for durability, color and types of usages. Each acts as a "dry cleaner" to keep surfaces wax protected with a superb coating necessary for many applications such as wood and certain other types of floors; for bars, wallpaper, etc.

Bright Beauty GLASS POLISH & CLEANER and SILVER POLISH—As a glass cleaner (pink color) it applies evenly with little effort, wipes off easily with negligible "powdering" and produces an undeniable "feel" of cleanliness to glass. As a cleaner of silver, it polishes to a high lustre without abrasion and can even correct the abuses of scratchy "quick-polish" inferior products.

Bright Beauty DANCE FLOOR WAX—Does not "ball-up" and gather dirt that impregnates floors with hard spots difficult to remove ... free from dusty effects. Its protective quality adds more "floor-years" to expensive ballroom floors.

Bright Beauty Heavy Duty PASTE CLEANER—Cleans and scours more effectively and quicker than most scouring powders. Depending on application, it can clean to perfection even painted walls to provide a suitable repainting surface. 100% active, free from excessive abrasive qualities, it frees almost every surface from all foreign matter.

CONTAINER SILK SCREEN LABELING—Now you can have dramatic, colorful labeling of your private brand name on all 55, 35, 30, 20 & 15 gal. drums and 5 gal. pails. This added service is accomplished right in our plant ... your inspection invited ... or write for details.

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FLOOR WAXES (Contd.)

Perrow Chemical Co., Hurt, Va.
 Piatt & Smillie Chems., 3419 Gratiot Ave., St. Louis, Mo.
 Puro Co., 2801 Locust St., St. Louis 3
 Reilly Chemical Co., P. O. Box 98, New Orleans, La.
 Sanders Chem. Co., 2205 N. American St., Phila. 33
 I. Schneid, Inc., 765 Talbert Ave., Atlanta, Ga.
 Simoniz Co., 2100 Indiana Ave., Chicago 16
 Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
 Sonneborn Chem. & Refin'g Corp., 300 4th Ave., N. Y. 10
 John C. Stallfort & Sons, 319 W. Pratt St., Baltimore
 John T. Stanley Co., 642 W. 30th St., N. Y.
 Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
 Trio Chem. Wks., 341 Scholes St., Bklyn.
 Uncle Sam Chemical Co., 575 W. 131st St., New York
 U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12
 James Varley & Sons, 1200 Switzer Ave., St. Louis
 T. F. Washburn Co., 2244 Elston Ave., Chicago
 Windsor Wax Co., Inc., 611 Newark St., Hoboken, N. J.
 Wyandotte Chemicals Corp., Wyandotte, Mich.

FLOOR WAXES, Germicidal

Buckingham Wax Co., 51-03 Van Dam St., Long Island City, N. Y.
 Chemical Service of Baltimore, Howard & West Sts., Baltimore
 Fuld Bros., 702 S. Wolfe St., Baltimore 31
 Hysan Products Co., 930 W. 37th Place, Chicago
 Trio Chemical Works, Inc., 341 Scholes St., Brooklyn
 Veneer-O-Wax Corp., 2010-12 E. Fletcher St., Phila. 25
 T. F. Washburn Co., 2244 Elston Ave., Chicago
 Windsor Wax Co., 611 Newark St., Hoboken, N. J.

FLOOR WAXES, Insecticidal

Buckingham Wax Co., 51-03 Van Dam St., Long Island City, N. Y.
 Franklin Research Co., 5124 Lancaster Ave., Phila.
 Hysan Prods. Co., 930 W. 38th Pl., Chicago
 New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.
 Veneer-O-Wax Corp., 2010-12 Fletcher St., Phila. 25

T. F. Washburn Co., 2244 Elston Ave., Chicago
 Windsor Wax Co., 611 Newark St., Hoboken, N. J.

FLUORIDES

American Agricultural Chem. Co., 100 Church St., N. Y.
 American Fluoride Corp., 151 W. 19th St., N. Y.
 Blockson Chemical Co., Joliet, Ill.
 California Spray-Chemical Corp., Richmond, Calif.
 Dow Chem. Co., Midland, Mich.
 E. I. du Pont de Nemours & Co., Wilmington, Del.
 General Chemical Div., 40 Rector St., N. Y.
 Harshaw Chemical Co., 1945 97th St., Cleveland
 Merck & Co., Rahway, N. J.
 Pennsalt Chems. Corp., 3 Penn Center, Phila.
 Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17
 Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
 Stauffer Chem. Co., 380 Madison Ave., N. Y.
 Jos. Turner & Co., Ridgely, N. J.
 Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

FLYPAPER and RIBBONS

Aeraxon Sales Co., 9 E. 38th St. N. Y.
 Fly-Cord, Inc., Box 2006, Savannah, Ga.
 Tanglefoot Co., 314 Straight Ave., S.W., Grand Rapids, Mich.
 R. E. Tongue & Bro., Allegheny and Amber Sts., Phila.

FLY SPRAYS (see Insecticides, Household and Industrial)

FOAM STABILIZERS

Antara Chemicals, 435 Hudson St., N. Y.
 Ardmore Chem. Co., 840 Valley Brook Ave., Lyndhurst, N. J.
 Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
 Atlas Powder Co., Wilmington, Del.
 Commercial Solvents Corp., 260 Madison Ave., N. Y.
 Continental Chem. Co., 195 21 Ave., Paterson, N. J.
 Dehydag Deutsche Hydrierwerke, Dusseldorf, Germany
 Fine Organics, Inc., 205 Main St., Lodi, N. J.
 Glyco Chemicals Div., 417 5th Ave., N. Y.



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Soap Compatibility and Stability: G-11 is effective in *all* types—bar, powder, and liquid soaps and detergents. It is also non-corrosive, alkali stable, effective at all pH's.

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Quality: All production meets U.S.P. specifications.

Availability: Immediate shipment of truck or carload quantities from stock. Available around the world.

Technical Service: Sindar discovered hexachlorophene, holds the patents, pioneered its use in antiseptic and deodorant soaps, and is ready to assist you with your technical problems and to supply data on its varied applications.

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Industrial Aromatics and Chemicals

321 West 44th Street, New York 36, N. Y.

FOAM STABILIZERS (Contd.)

Hercules Powder Co., Wilmington, Del.
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Kessler Chem. Co., State Rd., Phila. 45
M. Michel & Co., 90 Broad St., N. Y. C.
Metal & Thermit Corp., Rahway, N. J.
Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City 2, N. J.
Refined Prods. Corp., 624 Schuyler Ave., Lyndhurst, N. J.
Silicones Div., Union Carbide Corp., 30 E. 42nd St., N. Y. 17
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
Stepan Chem. Co., 427 W. Randolph St., Chicago
Swift & Co., Chicago
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17
Witco Chem. Co., 122 E. 42 St., N. Y. 17

FOAMING AGENTS (see Detergents, Synthetic; also Surface Active Agents)

FOGGING EQUIPMENT (See Sprayers, Fogging)

FOIL, Plain Metal

Aluminum Co. of America, Pittsburgh, Pa.
Cochran Foil Co., Louisville, Ky.
Johnson Foil Mfg. Co., South Broadway, St. Louis 11
Kaiser Aluminum & Chem. Sales, Oakland, Calif.
Republic Foil & Metal Mills, Danbury, Conn.
Reynolds Metals Co., Richmond, Va.
Stanahan Foil Co., Hackensack, N. J.

FOIL, Printed and Decorated

Continental Can Co., 100 E. 42nd St., N. Y. 17
Crown Zellerbach Corp., San Leandro, Calif.
Lachman-Novasel Paper Corp., 109 Greene St., N. Y.
Marathon Corp., Menasha, Wisc.
Milprint, Inc., Milwaukee 1, Wisc.
Reynolds Metals Co., Richmond, Va.
Western Foil Co., 3010 38th Ave., Seattle, Wash.

FORMALDEHYDE (see also Brokers and Dealers)

Celanese Corp. of America, 180 Madison Ave., N. Y.
Cliffs-Dow Chem. Co., Marquette, Mich.
Commercial Solvents Corp., 260 Madison Ave., N. Y.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Hercules Powder Co., Wilmington
Heyden Newport Chem. Corp., 342 Madison Ave., N. Y. 17
Mallinckrodt Chemical Work, St. Louis, Mo.
Merck & Co., Rahway, N. J.
Monsanto Chemical Co., St. Louis 24, Mo.
Nitrogen Div., 40 Rector St., N. Y.
Olin Mathieson Chem. Corp., Baltimore 3
Reichhold Chemicals, Inc., White Plains, N. Y.
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17
Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
Solvay Process Div., 61 Broadway, N. Y.
Jos. Turner & Co., Ridgefield, N. J.

FORMULATIONS, Private Brand (see listings under individual headings)

FRAMES (see Soap Frames)

"FREON" (Fluorinated Hydrocarbon Propellants)

E. I. du Pont de Nemours & Co., Wilmington, Del.

FULLERS EARTH

Chas. B. Chrystal Co., 53 Park Pl., N. Y.
Filtrol Corp., 3250 E. Washington Blvd., Los Angeles
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Industrial Chem. Sales Div., 230 Park Ave., N. Y.
Johns-Manville Corp., 22 E. 40 St., N. Y. C.
Minerals & Chemicals Corp. of America, Menlo Park, N. J.
Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
Tamms Industries, Inc., 228 N. La Salle St., Chicago
United Clay Mines Corp., 101 Oakland St., Trenton, N. J.
Charles A. Wagner Co., 4455 N. 6th St., Phila.
Whittaker, Clark & Daniels, 100 Church St., N. Y.

FUMIGANTS (Cyanides, Chlorpicrin, Methyl Bromide, etc)

American-British Chem. Supplies, 180 Madison Ave., N. Y.
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Amer. Potash & Chem. Corp., 3030 W. 6th St., Los Angeles, Calif.
Calif. Spray-Chemical Corp., Richmond, Calif.
Commercial Solvents Corp., 260 Madison Ave., N. Y.
Diamond Alkali Co., Union Commerce Bldg., Cleveland
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Frontier Chem. Co., Wichita, Kan.
Geigy Agricultural Chemicals, Ardsley, N. Y.
Jefferson Chem. Co., 1121 Walker Ave., Houston
Kolker Chem. Corp., 600 Doremus Ave., Newark 5
Larvacide Products Co., 117 Liberty St., N. Y.
Michigan Chem. Corp., St. Louis, Mich.
Monsanto Chemical Co., St. Louis 24, Mo.
Morton Chem. Co., 110 N. Wacker Dr., Chicago 6
Rohm & Haas Co., Inc., 222 W. Washington Sq., Philadelphia
Shell Chem. Corp., 50 W. 50th St., N. Y.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17
Westvaco Chlor-Alkali Div., 161 E. 42nd St., N. Y.
Wyandotte Chemicals Corp., Wyandotte, Mich.

"GENETRON," (Fluorinated Hydrocarbon Propellants)

General Chemical Div., 40 Rector St., N. Y.

GERANIOL (see Aromatic Chemicals)

GERANIUM OIL (see Essential Oils)

GERANYL ACETATE (see Aromatic Chemicals)

GERMICIDAL DETERGENTS (see Detergents Synthetic, Cationic)

GERMICIDES (for Soap, Etc.)

Alco Oil & Chem. Corp., Trenton Ave. and William St., Phila.
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Antara Chemicals, 435 Hudson St., N. Y.
Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
Bex Industries, Inc., 210 5 Ave., N. Y.
Chemo Puro Mfg. Corp., 60 E. 42 St., N. Y. C.
Ciba Co., Fair Lawn, N. J.
Dow Chem. Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Fine Organics, Inc., 205 Main St., Lodi, N. J.
Fleetwood Prods. Co., 509 5th Ave., N. Y.
Geigy Industrial Chemicals, Ardsley, N. Y.
Heyden Newport Chem. Corp., 342 Madison Ave., N. Y. 17
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Metal & Thermit Corp., Rahway, N. J.
Monsanto Chemical Co., St. Louis 4
Olin Mathieson Chem. Corp., Baltimore 3
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City 2, N. J.
Ottawa Chem. Co., 823 Hamilton St., Toledo 7, O.
Pennsalt Chems. Corp., 3 Penn Center, Phila.
Rohm & Haas Co., 222 W. Washington Square, Phila. 5
Sindar Corp., 321 W. 44th St., N. Y.
Sterwin Chemicals, Inc., 1450 Broadway, N. Y. 18
R. T. Vanderbilt Co., 230 Park Ave., N. Y. 17
Westvaco Mineral Prods. Div., 161 E. 42nd St., N. Y.
Wilson-Martin Div., Snyder Ave. & Swanson St., Phila.
Witco Chem. Co., 122 E. 42nd St., N. Y. 17
Wyandotte Chemicals Corp., Wyandotte, Mich.

GLASS BOTTLES and JARS (see Bottles)

GLASS AND WINDSHIELD CLEANERS

ABC Compounding Co., Oakcliffe & Harwell Rds., Atlanta, Ga.
Averil, Inc., 6780 NW 37 Ct., Miami, Fla.
B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Baird & McGuire, Inc., Holbrook, Mass.
Barton Chemical Co., 1230 W. 46 St., Chicago 9
Cary Mfg. Co., 3559 Sweetwater Rd., Lemon Grove, Calif.
Chemical Service of Baltimore, Howard & West Sts., Balto. 30
Clarkson Laboratories, 920 N. Darien St., Phila.
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Davies-Young Soap Co., Dayton 1, O.
Emulso Corp., 301 Ellicott St., Buffalo, N. Y.
Essential Chems. Co., 5906 N. Port Washington Rd., Milwaukee
Fitzpatrick Bros., 1300 W. 32 Pl., Chicago 8
Franklin Research Co., 5134 Lancaster Ave., Phila. 31

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GLASS AND WINDSHIELD CLEANERS (Contd.)

Freesmeier Laboratories, 3661 Windsor Pl., St. Louis 13
Frontier Chem. Prods., 119 E. Soper St., St. Louis
Fluid Chem. Co., 878 Mt. Prospect Ave., Newark, N. J.
Fuld Bros., 702 S. Wolfe St., Baltimore
Golden Star Polish Mfg. Co., 400 E. 10th St., N. Kansas City, Mo.
Haag Laboratories, 140th St. & Seeley Ave., Blue Island, Ill.
R. M. Hollingshead Corp., Camden, N. J.
Hysan Prods. Co., 930 W. 38th Pl., Chicago
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Jones-Hamilton Co., 455 Wells Ave., Newark, Calif.
Masury Young Co., 76 Roland St., Boston 29
M. Michel & Co., 90 Broad St., N. Y.
Midland Labs., Dubuque, Ia.
Pace, Inc., MacArthur Rd., Wilmington 99, Dela.
Peterson Filling & Packaging Co., Hegeler Lane, Danville, Ill.
Puro Co., 2801 Locust St., St. Louis 3
Rochester Sanitary Prods. Co., 846 Exchange St., Rochester, N. Y.
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
John T. Stanley Co., 642 W. 30th St., N. Y.
Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
Thompson-Hayward Chem. Co., 2915 SW Blvd., Kansas City 8, Mo.
Trio Chemical Wks., 341 Scholes St., Brooklyn 6
Uncle Sam Chemical Co., 575 W. 131st St., New York
U. S. Sanitary Spec. Corp., 1001 S. California Ave., Chicago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis
Veneer-O-Wax Corp., 2010-12 Fletcher St., Phila.

GLUCONIC ACID

Dawe's Laboratories, 4800 S. Richmond St., Chicago 32
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y. 20
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn. 6

GLYCERINE (Refined)

Acme-Hardesty Co., 60 E. 42nd St., N. Y. C
Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
Colgate-Palmolive Co., 300 Park Ave., N. Y.
Dow Chem. Co., Midland, Mich.
E. F. Drew & Co., Boonton, N. J.
Emery Industries, Carew Tower, Cincinnati
A. Gross & Co., 295 Madison Ave., N. Y.
Harchem Div., Box 178, Newark, N. J.
Lever Bros. Co., 390 Park Ave., N. Y.
Los Angeles Soap Co., Los Angeles, Calif.
Procter & Gamble Distributing Co., Cincinnati
Purex Corp., 9300 Rayo Ave., South Gate, Calif.
Reichhold Chemicals, Inc., White Plains, N. Y.
Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
Shell Chemical Corp., 50 W. 50th St., N. Y. 18
Swift & Co., Hammond, Ind.
Vegetable Oil Prods., 5568 E. 61 St., Los Angeles

GLYCERINE PLANTS AND EQUIPMENT

G. Mazzoni, Busto Arsizio, Italy
Swenson Evaporator Co., Harvey, Ill.
Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

GLYCERYL MONOSTEARATE, Oleate, Etc.

Aceto Chem. Co., 40-40 Lawrence St., Flushing, N. Y.
Atlas Powder Co., Wilmington 99, Dela.
Baker Castor Oil Co., 40 Ave. A, Bayonne, N. J.
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Foremost Food & Chem. Co., Oakland, Calif.
Emery Industries, Inc., Carew Tower, Cincinnati
Glyco Chemicals Div., 417 5th Ave., N. Y.
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y. 20
Harchem Div., 29 Main St., Belleville, N. J.
Hodag Chem. Corp., 7247 N. Central Park Ave., Chicago 45
Kessler Chem. Co., State Rd., Phila. 35
Knapp Prods., Inc., Lodi, N. J.
Marchon Prods. Ltd., Whitehaven, Cumberland, Eng.
M. Michel & Co., 90 Broad St., N. Y. 4
Nopco Chemical Co., 60 Park Pl., Newark 1, N. J.
Northwestern Chem. Co., 120 N. Aurora, W. Chicago
Process Chems. Co., 8733 S. Dice Rd., Los Nietos, Calif.
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago
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GLYCERL MONOSTEARATE, Oleate, Etc. (Contd.)

Van Dyk & Co., Belleville, N. J.
Wilson-Martin Div., Snyder & Swanson, Phila.
Witco Chem. Co., 122 E. 42nd St., N. Y. 17

GLYCOL ETHER SOLVENTS (see Solvents, Glycol Ether)

GLYCOLS

Air Reduction Chem. Co., 150 E. 42nd St., N. Y.
Amsco Solvents & Chemicals Co., 4619 Reading Rd., Cincinnati
Antara Chemicals, 435 Hudson St., N. Y.
Buffalo Solvents & Chemicals Corp., Box 73, Station B, Buffalo, N. Y.
Central Sols. & Chems. Co., 2540 W. Flournoy St., Chicago
Dixie Solvents & Chems. Co., Dixie Highway at Appleton, Louisville, Ky.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Eastman Chem. Prods., Kingsport, Tenn.
General Aniline & Film Corp., 435 Hudson St., N. Y. 14
Glycol Products Div., 417 5th Ave., N. Y.
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis, Ind.
Jefferson Chemical Co., 1121 Walker Ave., Houston, Tex.
Missouri Solvents & Chemicals Co., 410 De Soto Ave., St. Louis
Nitrogen Div., 40 Rector St., N. Y.
Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland
Olin Mathieson Chem. Corp., 745 5th Ave., N. Y. 22
Plastics & Coal Chem. Div., 40 Rector St., N. Y. 6
Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
Shell Chemical Corp., 50 W. 50th St., N. Y.
Southern Solv. & Chem. Co., 917 Jefferson Highway, New Orleans
Texas Solvents & Chemicals Co., 8501 Market St., Houston, Tex.
Toledo Sols. & Chems. Co., 4051 South Ave., Toledo, O.
Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17
Van Dyk & Co., 11 Williams St., Belleville, N. J.
Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee
Wolverine Solv. & Chem. Co., 2940 Stafford Ave., S.W., Grand Rapids
Wyandotte Chemicals Corp., Wyandotte, Mich.

GLYCOL SPRAYS (Aerosol type for use as deodorizers and sanitizers, ready packaged)

Baird & McGuire, Inc., Holbrook, Mass.
Chase Products Co., 20 St. & Gardner Rd., Broadview, Ill.
Chemical Service of Balto., Howard & West Sts., Balto.
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Continental Filling Corp., 123 N. Hazel St., Danville, Ill.
Fuld Bros., 702 S. Wolfe St., Baltimore
Hysan Prods. Co., 930 W. 38th Pl., Chicago
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Orb Industries, Wallingford Rd., Media, Pa.
Pace, Inc., MacArthur Rd., Wilmington 99, Dela.
Peterson Filling & Packaging Co., Hegeler Lane, Danville, Ill.
Puro Co., 2801 Locust St., St. Louis 3
Sprayway, Inc., 7638 Vincennes Ave., Chicago 20
James Varley & Sons, 1200 Switzer Ave., St. Louis

GREASE ABSORBENTS (for floors, etc.)

Atlantic Refining Co., 260 S. Broad St., Phila.
Chemical Service Co. of Baltimore, Howard & West Sts., Balto.
Chas. B. Chrystal Co., 53 Park Pl., N. Y. 7
Diamond Head Oil Ref. Co., 1401 Harrison Tpke., Kearny, N. J.
Dri-Rite Co., 100 W. Chicago Ave., Chicago 10
R. M. Hollingshead Corp., Camden, N. J.
Johns-Manville Prods. Corp., 22 E. 40th St., N. Y.
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Frank Miller & Sons, 2250 W. 58th St., Chicago
Minerals & Chemicals Corp. of America, Menlo Park, N. J.
S. & S. Soap Co., 815 E. 135 St., N. Y. 54
Tamms Industries, Inc., 228 N. LaSalle St., Chicago
Uncle Sam Chemical Co., 573 W. 131st St., New York
Waverly Petroleum Prods. Co., 3018 Market St., Philadelphia
Wyandotte Chemicals Corp., Wyandotte, Mich.

GRINDING MACHINERY (for milling, pulverizing, etc.)

American Pulverizing Co., 18th & Austin Sts., St. Louis
J. H. Day Co., Cincinnati 12
First Machy. Corp., 209 10 St., Bklyn. 15 (Used)
Gruendler Patent Crusher & Pulverizer Co., 900 N. First St., St. Louis
B. F. Gump Co., 1338 S. Cicero Ave., Chicago
Houchin Division, 300 Straight St., Paterson, N. J.

Kent Machine Works, 39 Gold St., Brooklyn
 J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.
 G. Mazzoni, Busto Arsizio, Italy
 Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
 Newman Tallow & Soap Machinery Co., 3601 S. Iron St., Chicago
 Pulverizing Machinery Div., Chatham Rd., Summit, N. J.
 Rapids Machinery Co., Marion, Iowa
 Raymond Pulverizing Div., 1314 N. Branch St., Chicago
 Chas. Ross & Sons, 148 Classon Ave., Brooklyn
 Henry Simon Ltd., Cheadle Heath, Stockport, England
 Skinner Engine Co., Erie, Pa.
 Sprout, Waldron & Co., Muncy, Pa.
 Strong-Scott Mfg. Co., 451 Taft St., N.E., Minneapolis, Minn.
 Sturtevant Mill Co., Park & Clayton Sts., Boston
 U. S. Stoneware Co., 60 E. 42 St., N. Y.
 Williams Patent Crusher & Pulverizer Co., 2700 N. 9th St., St. Louis
 Young Machy. Co., Muncy, Pa.

GUMS (oil, spirit soluble; varnish gums) Copal, Congo, Manila, Dammar, etc.)

Archer-Daniels-Midland Co., Minneapolis, Minn.
 Wm. Diehl & Co., 114 E. 56th St., N. Y. C.
 Gillespie-Rogers-Pyatt Co., 75 West St., N. Y. 16
 O. G. Innes Corp., 10 E. 40th St., N. Y. 16
 Meer Corp., 318 W. 46th St., N. Y. 36
 Thurston & Braidich, 286 Spring St., N. Y. 13
 Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
 Wm. H. Scheel, Inc., 38 Franklin St., Bklyn. 22
 Velsicol Chem. Corp., 330 E. Grand Ave., Chicago

GUMS (Water soluble) Arabic, Karaya, Tragacanth, etc.

Alco Oil & Chem. Corp., Trenton Ave. & Williams St., Phila.
 Dodwell & Co., 120 Wall St., N. Y. 5
 Paul A. Dunkel & Co., 26 Journal Sq., Jersey City, N. J.
 B. F. Goodrich Chem. Co., 3135 Euclid Ave., Cleveland 15
 Hercules Powder Co., Wilmington
 Meer Corp., 318 W. 46th St., N. Y. 36
 National & Chem. Corp., 750 3rd Ave., N. Y. 17

Neumann-Buslee & Wolfe, 5800 Northwest Hwy., Chicago
 Orbis Products Corp., 601 W. 26th St., N. Y. 1
 F. H. Paul & Stein Bros., Inc., 235 Fifth Ave., N. Y.
 S. B. Penick & Co., 100 Church St., N. Y. 8
 Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1
 Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
 Seaplant Chem. Corp., 63 David St., New Bedford, Mass.
 Thompson-Hayward Chems. Co., 2915 SW Blvd., Kansas City 8
 Thurston & Braidich, 286 Spring St., N. Y. 13
 Tragacanth Importing Corp., 160 Water St., N. Y. 38

GYM-FINISH FLOOR SEAL (see Sealers, Floor)

HAND CLEANERS (Powdered, Waterless, etc.)

ABC Compounding Co., Oakcliffe & Harwell Rds., Atlanta, Ga.
 Averil, Inc., 6780 NW 37 Ct., Miami, Fla.
 Capital Soap Corp., 310 Colfax Ave., Clifton, N. J.
 Chicago Sanitary Prod. Co., 3100 S. Throop St., Chicago 8
 Clarkson Laboratories, 920 N. Darien St., Phila. 23
 Continental Chem. Co., 195 21 Ave., Paterson, N. J.
 Dameron Enterprises, 427 S. 20th St., Louisville, Ky.
 Davies-Young Soap Co., Dayton 1, O.
 DL Products, Inc., 51 E. Market St., Buffalo 4, N. Y.
 Donner & Co., 135 Henry Ave., Winnipeg, Canada
 Essential Chems. Co., 5906 N. Port Washington Ave., Milwaukee
 Fine Organics, Inc., 205 Main St., Lodi, N. J.
 Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
 Frontier Chem. Prods. Co., 119 E. Soper St., St. Louis 11
 Fuld Bros., 702 S. Wolfe St., Baltimore 3
 Haag Laboratories, 14000 Seeley Ave., Blue Island, Ill.
 Hammons Prods. Inc., 1141 Wildwood Ave., Ft. Wayne, Ind.
 Harley Soap Co., Pearce & Orthodox Sts., Phila. 37
 Highland Laboratories, Kearny, N. J.
 R. M. Hollingshead Corp., Camden, N. J.
 Hysan Prods. Co., 930 W. 38th Pl., Chicago
 Jones-Hamilton Co., 455 Wells Ave., Newark, Calif.
 Klux Chem. Co., 551 Railroad Ave., S. San Francisco
 Kutol Products Co., 2817 Highland Ave., Cincinnati
 Lightfoot Co., 380 Madison Ave., N. Y. C.
 McAleer Mfg. Corp., 101 S. Waterman Ave., Detroit 17



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Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City 2, N. J.
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10
Peck's Products Co., 610 E. Clarence Ave., St. Louis 15
Quicke Prods., Inc., Box 312, Yonkers, N. Y.
S & E Chem. Co., 1751 N. Harding Ave., Chicago
Sanders Chem. Co., 2205 N. American St., Phila. 33
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Standard Soap Co. Div., 205 S. 2nd St., Camden, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Sugar Beet Prods. Co., Saginaw, Mich.
Surety Laboratories, 3946 Olive St., St. Louis 8
Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
Theobald Industries, P. O. Box 72, Harrison, N. J.
Trio Chemical Wks., 341 Scholes St., Brooklyn 6
Utility Co., 636 W. 44th St., N. Y. 26
Veneer-O-Wax Corp., 2010-12 E. Fletcher St., Phila.
Warsaw Chem. Co., Warsaw, Ind.

HAND CREAMS, (Protective)

Averil, Inc., 6780 NW 37 Ct., Miami, Fla.
G. Barr & Co., 3601 S. Racine Ave., Chicago
Davies Young Soap Co., Dayton, O.
DL Products, Inc., 51 E. Market St., Buffalo 4, N. Y.
C. B. Dolge Co., Westport, Conn.
Frontier Chem. Prods., Inc., 119 E. Soper St., St. Louis
Hammons Prods., Inc., 1141 W. Wildwood Ave., Ft. Wayne, Ind.
R. M. Hollingshead Corp., Camden, N. J.
Hysan Prods. Co., 930 W. 38th Pl., Chicago
Kutol Prods. Co., 2817 Highland Ave., Cincinnati
McAleer Mfg. Corp., 101 S. Waterman Ave., Detroit 17
Old Empire, Inc., Mt. Prospect & Verona, Newark, N. J.
Quicke Prods., Inc., 141 Woodworth Ave., Yonkers, N. Y.
S & E Chem. Co., 1751 N. Harding Ave., Chicago
Surety Laboratories, 3946 Olive St., St. Louis
Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
Trio Chemical Wks., 341 Scholes St., Bklyn. 6
Utility Co., 636 W. 44th St., N. Y. 36

HAND SOAP, LIQUID (see Potash Soaps)

HAND SOAP (Mechanic's Hand Paste)

ABC Compounding Co., Oakcliffe & Harwell Rds., Atlanta, Ga.
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.
Chem. Service of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prod. Co., 3100 S. Throop St., Chicago 8
Clifton Chem. Co., 150 Nassau St., New York
Dameron Enterprises, 427 S. 20th St., Louisville, Ky.
Davies Young Soap Co., Dayton
DL Products, Inc., 51 E. Market St., Buffalo, N. Y.
Emulso Corp., 301 Ellicott St., Buffalo, N. Y.
Essential Chemicals Co., 5906 N. Port Washington Rd., Milwaukee
Frontier Chem. Prods., 119 E. Soper St., St. Louis 11
Fuld Bros., 702 S. Wolfe St., Baltimore
Hammons Products, Inc., 1141 W. Wildwood Ave., Fort Wayne 2, Ind.
Help, Inc., 122 W. Kinzie St., Chicago
Hewitt Soap Co., 333 Linden Ave., Dayton, O.
R. M. Hollingshead Co., Camden, N. J.
Hysan Prods. Co., 930 W. 38th Pl., Chicago
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Kutol Products Co., 2817 Highland Ave., Cincinnati
Los Angeles Soap Co., 617 E. First St., Los Angeles
Mione Mfg. Co., Collingdale, Pa.
National Milling & Chemical Co., 4601 Flat Rock Rd., Phila. 27
North Coast Soap & Chem. Wks., Seattle, Wash.
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis, Mo.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Procter & Gamble Dist. Co., Cincinnati
Quicke Prods. Inc., 141 Woodworth Ave., Yonkers, N. Y.
S & E Chemical Co., 1751 N. Harding Ave., Chicago
S. & S. Soap Co., 815 E. 135 St., N. Y. 54
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Standard Soap Co. Div., 205 S. 2nd St., Camden, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Sugar Beet Prods. Co., Saginaw, Mich.
Surety Laboratories, 3946 Olive St., St. Louis 8
Swift & Co., Chicago
Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
Theobald Industries, P. O. Box 72, Harrison, N. J.

Trio Chem. Wks., 314 Scholes St., Bklyn.
Sprayway, Inc., 7638 Vincennes Ave., Chicago 20
U. S. Sanitary Spec. Corp., 1001 S. Calif., Chicago 12
Utility Co., 636 W. 44th St., N. Y.
Veneer-O-Wax Corp., 2010-12 Fletcher St., Phila.
Warsaw Chem. Co., Warsaw, Ind.
Roy Wilson Mfg. Co., 2541 Archer Ave., Chicago 8

HAND SOAP, Powdered

ABC Compounding Co., Oakcliffe & Harwell Rds., Atlanta, Ga.
Armour & Co., 1355 W. 31st St., Chicago 9
B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Baird & McGuire, Inc., Holbrook, Mass.
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Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.
Chicago Sanitary Prod. Co., 3100 S. Throop St., Chicago 8
Dameron Enterprises, 4275 20th St., Louisville, Ky.
DL Products, Inc., 51 E. Market St., Buffalo 4, N. Y.
Emulso Corp., 301 Ellicott St., Buffalo, N. Y.
Essential Chemicals, 5906 N. Port Washington Rd., Milwaukee
Fitzpatrick Bros., 1300 W. 32 Pl., Chicago 8
Frontier Chem. Prods., Inc., 119 E. Soper St., St. Louis
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Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
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Lightfoot Co., 380 Madison Ave., N. Y. C.
Mione Mfg. Co., Collingdale, Penna.
National Milling & Chemical Co., 4601 Flat Rock Rd., Phila. 27
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Peerless Chem. Co., 1300-02 N. Fulton Ave., Baltimore
Procter & Gamble Dist. Co., Cincinnati
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S. & S. Soap Co., 815 E. 135 St., N. Y. 54
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
I. Schneid, Inc., 765 Trabert Ave., NW, Atlanta, Ga.
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Standard Soap Co. Div., 205 S. 2nd St., Camden, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Sugar Beet Prods. Co., Saginaw, Mich.
Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
Theobald Industries, P. O. Box 72, Harrison, N. J.
Trio Chem. Wks., 341 Scholes St., Bklyn.
The Utility Co., 636-642 W. 44th St., N. Y. 26
U. S. Borax & Chem. Corp., 50 Rockefeller Plaza, N. Y. 20
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12
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Warsaw Chem. Co., Warsaw, Ind.

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Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Essential Chemical Co., 5906 N. Port Washington Rd., Milwaukee
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Harley Soap Co., Pierce & Orthodox Sts., Phila.
Hewitt Soap Co., 333 Linden Ave., Dayton, O.
Higley Chemical Co., Dubuque, Iowa
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
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Sindar Corp., 321 W. 44th St., N. Y. 18

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 Geigy Agricultural Chemicals, Ardsley, N. Y.
 Monsanto Chemical Co., St. Louis 24, Mo.
 Olin Mathieson Chem. Corp., Baltimore 3
 Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y.
 Victor Chemical Works, 155 N. Wacker Dr., Chicago
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 Morehouse-Cowles, Inc., 1150 San Francisco Rd., Los Angeles
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 James Good, Inc., 2107 Susquehanna Ave., Phila. 25
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 National Research & Chem. Co., 12520 Cerise Ave., Hawthorne, Calif.
 J. L. Prescott Co., 27 8th St., Passaic, N. Y.
 Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
 John T. Stanley Co., 642 W. 30th St., N. Y.
 Thompson-Hayward Chem. Co., 2915 SW Blvd., Kansas City 8
 Trio Chemical Wks., 341 Scholes St., Bklyn. 6
 Washine Chem. Corp., Lodi, N. J.

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 Metaelectro Corp., Laurel, Md.
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 Shell Chem. Corp., 50 W. 50 St., N. Y. 20
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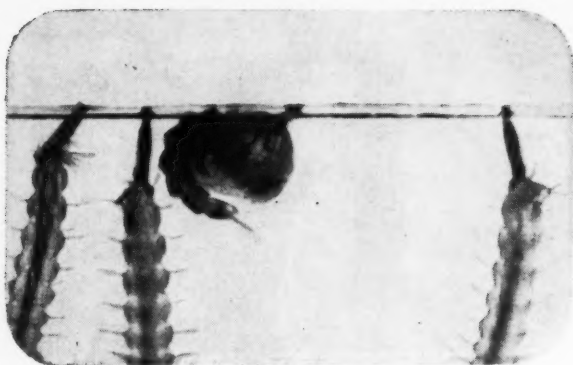
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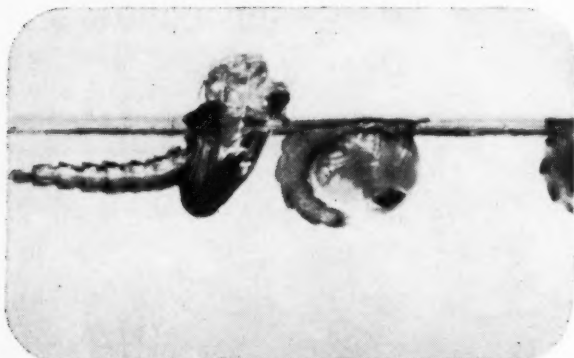
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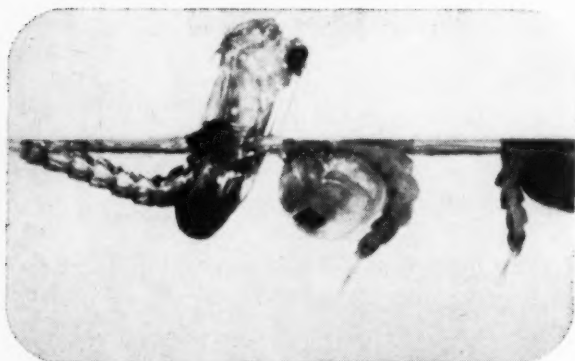
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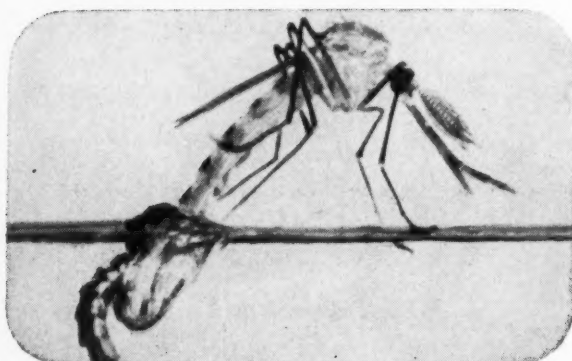
Larvae of Southern House Mosquito breathe through tube inserted at water surface. Pupal shell (center) holds adult just ready to emerge.



Skin is broken, and head of adult mosquito raises above water surface.



By pumping air into its abdomen, mosquito creates pressure to force itself out of pupal case.



Nearly emerged, and already hungry for human blood, adult mosquito (*Culex quinquefasciatus*) will rest briefly before it is able to fly in search of food.

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Glenn Chem. Co., 2735 N. Ashland Ave., Chicago
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y. 10
Hercules Powder Co., Wilmington
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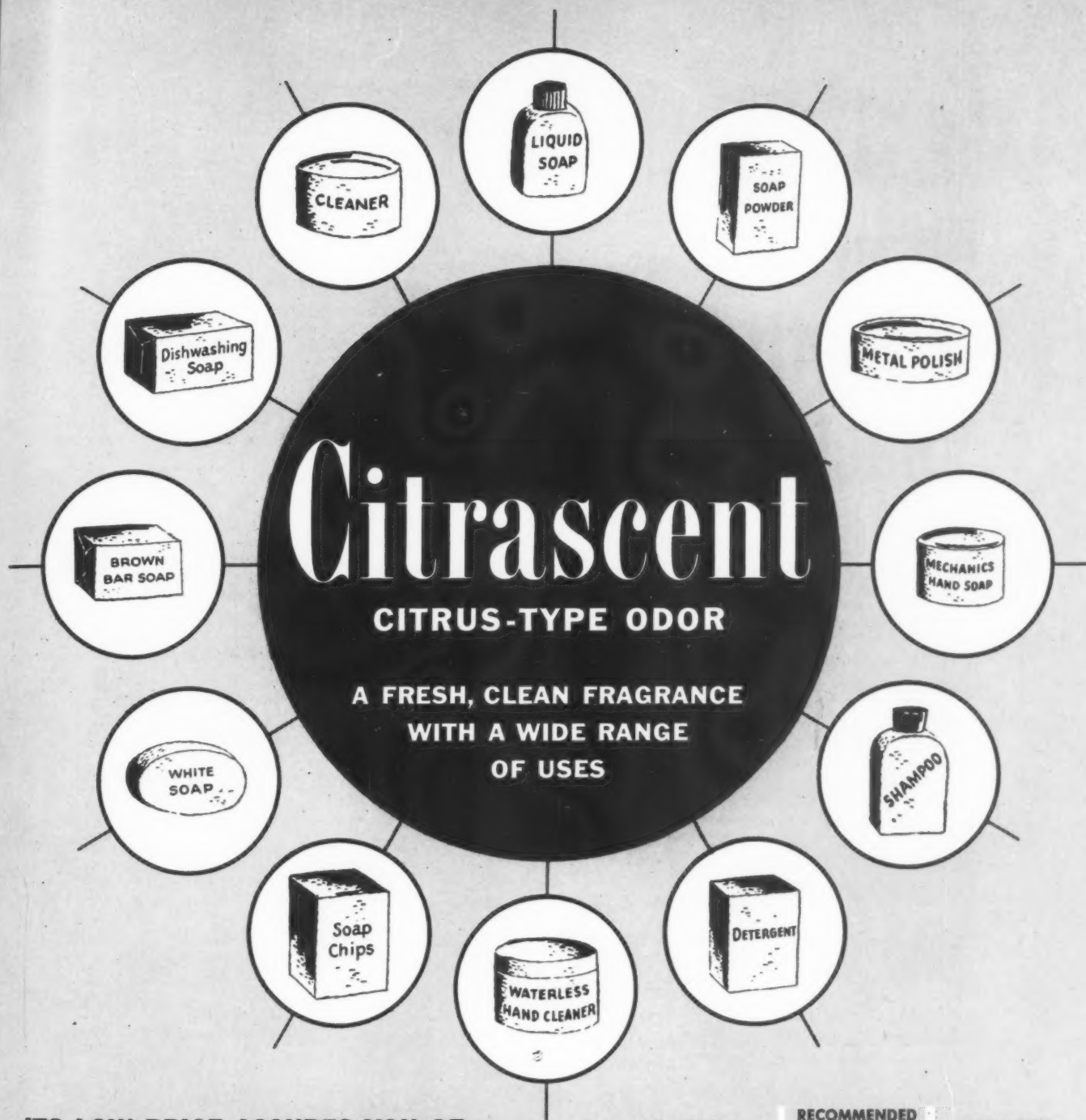
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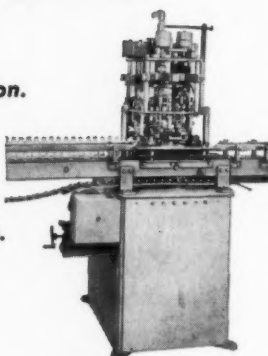
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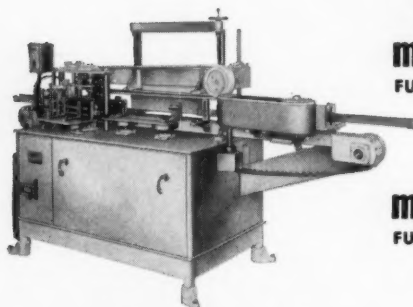


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Miranol Chemical Co., 277 Coit St., Irvington, N. J.

LAUNDRY SOAP, POWDERED AND GRANULATED (Contd.)

National Milling & Chem. Co., 4601 Flat Rock Rd., Phila.
National Soap Co., 357 South 25th St., Tacoma, Wash.
North Coast Chem. & Soap Wks., Seattle, Wash.
Original Bradford Soap Wks., West Warwick, R. I.
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10
Procter & Gamble Dist. Co., Cincinnati
Puro Co., 2801 Locust St., St. Louis 3
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Standard Soap Co., 205 S. 2nd St., Camden, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Union Stock Yards, Chicago
Theobald Industries, P. O. Box 72, Harrison, N. J.
Valley Prods. Co., 385 E. Brooks Ave., Memphis 9, Tenn.
Warren Chem. Mfg. Inc., Norwood, Mass.

LAUNDRY SOURS (Fluoride, etc.)

American Agricultural Chem. Co., 100 Church St., N. Y.
American Fluoride Corp., 151 W. 19th St., N. Y.
Blockson Chemical Co., Joliet, Ill.
Diamond Alkali Co., Union Commerce Bld., Cleveland
E. I. du Pont de Nemours & Co., Wilmington
General Chem. Div., 40 Rector St., N. Y. 6
H. Kohnstamm & Co., 161 6th Ave., N. Y. C.
Keever Starch Co., 530 E. Town St., Columbus, O.
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Henry Sundheimer, Inc., 103 Park Ave., N. Y.
Victor Chem. Works, 155 N. Wacker Dr., Chicago
Wyandotte Chemicals Corp., Wyandotte, Mich.

LAURIC ACID (see also Fatty Acids)

Amato Agency, 11 Broadway, N. Y. 4
American Alcolac Corp., 3440 Fairfield Rd., Baltimore
American Int'l. Prod. Corp., 138 Liberty St., N. Y. 6
Archer-Daniels-Midland Co., Minneapolis, Minn.
Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
Emery Industries, Carew Tower, Cincinnati
Foremost Food & Chem. Co., Oakland, Calif.
A. Gross & Co., 295 Madison Ave., N. Y. 17
Harchem Div., Box 178, Newark, N. J.
M. Michel & Co., 90 Broad St., N. Y. 4
Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
Robinson Wagner Co., 628 Waverly Ave., Mamaroneck, N. Y.
Swift & Co., 165th St., Hammond, Ind.
Vegetable Oil Prods., 5568 E. 61 St., Los Angeles
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Wilson-Martin Div., Snyder & Swanson, Phila.
Woburn Chemical Corp., 1200 Harrison Ave., Kearny, N. J.
G. S. Ziegler & Co., Box 348, Great Neck, N. Y.

LAURYL ALCOHOL

Amato Agency, 11 Broadway, N. Y. 4
American Alcolac Corp., 3440 Fairfield Rd., Balto. 26
Archer-Daniels-Midland Co., Minneapolis, Minn.
Dehydtag Deutsche Hydrierwerke, Henkelstrasse 67, Dusseldorf, Germany
E. I. du Pont de Nemours & Co., Wilmington
Givaudan-Delawanna, Inc., 321 W. 44th St., N. Y. C.
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y. 10
M. Michel & Co., 90 Broad St., N. Y. 4
Marchon Prods., Ltd., Whitehaven, Cumberland, England
Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
Rohm & Haas Co., 222 W. Washington Square, Phila. 5
Stanalchem Inc., 350 Madison Ave., N. Y. 17
Robinson Wagner Co., 628 Waverly Ave., Mamaroneck, N. Y.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

LECITHIN

American Lecithin Corp., 57-01 32nd Ave., Woodside 77, N. Y.
Archer-Daniels-Midland Co., Minneapolis, Minn.
Drackett Co., 5020 Spring Grove, Cincinnati 32
Glidden Co., Cleveland, O.
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.
Ross & Rowe, Inc., 50 Broadway, N. Y.
Spencer Kellogg & Sons, Buffalo, N. Y.
A. E. Staley Mfg. Co., Decatur, Ill.
Welch, Holme, & Clark Co., 1 Hudson St., N. Y. 13
Wilson Labs., 4221 S. Western Blvd., Chicago

LEMON OIL, LEMONGRASS OIL (see Essential Oils)

A Complete Line Of Fatty Alcohols And Fatty Alcohol Sulfates

Below is only a partial list of the complete American Alcolac line. Manufacturers of products incorporating detergents, foaming and wetting agents, emulsifiers, etc., will find an Alcolac product best suited to their formulations.

SIPEX

Product	Tradename	Application
Ammonium Lauryl Sulfate	SIPEX A	Acid cleaners
Triethanolamine Lauryl Sulfate	SIPEX TEA	Low cloud point liquid detergent
Magnesium Lauryl Sulfate	SIPEX M	High conc. rug cleaners

SODIUM LAURYL SULFATES

88.0% Active Powder	SIPEX SD	Suitable for a wide variety of high foam liquid or powdered detergent applications
30.0% Paste (high salt)	SIPEX S	
30.0% Paste (low salt)	SIPEX SB	
63.0% Active Powder	SIPEX OP	

SODIUM LAURYL ETHER SULFATES

Sodium salts of sulfated lauryl alcohol ethoxylates	SIPON ES	Emulsifiers, rug cleaning
	SIPON ESX	Dishwashing

Other fatty alcohol sulfates are available including the sodium sulfates of cetyl, oleyl, and tallow alcohol which are suitable for heavy duty laundry detergents and other low foam, high detergency applications. Modified fatty alcohol sulfates such as SIPEX 7WC for bubble bath and textile scouring are available to meet individual requirements. You are invited to contact us for complete information.

SIPONICS

Tallow Alcohol Ethers	Tradename	Application
Oleyl Alcohol Ethers	SIPONIC E1-E5	Detergents & emulsifiers
Lauryl Alcohol Ethers	SIPONIC Y100-Y500	Emulsifiers & emulsion stabilizers
Aliphatic Ethoxylate	SIPONIC L1-L25	Thickeners, foam stabilizers & solubilizers
	SIPONIC CD	Detergent & emulsifier

SIPONOL

Cetyl Alcohol	SIPONOL CX	Chemical inter-emulsifier
Tallow Alcohol	SIPONOL TX	Foam depressant and chemical intermediate

SIPENES

Alkyl Dimethyl Amines	Tradename	Application
Lauryl Dimethyl Amine	SIPENE LDC	Intermediate for cationics
N-Lauryl Morpholine	SIPENE SWN	Polyurethane catalyst

TECHNICAL BULLETINS, working samples, tested formulas, and assistance in product development are available without obligation. Phone or write our nearest office.

American Alcolac CORPORATION

MAIN OFFICE AND PLANT

3440 FAIRFIELD ROAD, BALTIMORE 26, MD.

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National Gypsum Co., Delaware Ave., Buffalo 2, N. Y.
U. S. Gypsum Co., W. Adams St., Chicago
West End Chem. Co., 1956 Webster St., Oakland, Calif.
Whittaker, Clark & Daniels, 100 Church St., N. Y.
Wyandotte Chemicals Corp., Wyandotte, Mich.

LINDANE (Benzene Hexachloride, 99% gamma isomer)

California Spray-Chemical Corp., Richmond, Calif.
Commercial Solvents Corp., 260 Madison Ave., N. Y.
Diamond Alkali Co., Union Commerce Bldg., Cleveland
Geigy Agricultural Chemicals, Ardsley, N. Y.
Hooker Chemical Corp., Niagara Falls, N. Y.
S. B. Penick & Co., 100 Church St., N. Y. 8
Pittsburgh Coke & Chem. Co., Grant Bldg., Pittsburgh
Prentiss Drug & Chem. Co., 101 W. 31 St., N. Y. 1
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Westvaco Chem. Div., 161 E. 42nd St., N. Y.
Wyandotte Chemicals Corp., Wyandotte, Mich.

LINERS, bag, barrel, box, case and drum

Angier Corp., Framingham, Mass.
Arkell Safety Bag Co., 10 E. 40th St., N. Y.
Bemis Bros. Bag Co., 601 S. 4th St., St. Louis
Canton Containers, Inc., 1101 9th St., S.E., Canton, Ohio
Kalamazoo Vegetable Parchment Co., Parchment, Mich.
Thilmann Pulp & Paper Co., Kaukauna, Wisc.
Western Waxed Paper Div., Crown Zellerbach Corp., San Leandro, Calif.
Wyndmoor Mfg. Corp., 306 Lyons Ave., Newark, N. J.

LINING MACHINERY (Cartons)

Clybourn Machine Corp., 6479 N. Avondale Ave., Chicago 31
FMC Packaging Mch. Div., 4972 Summerdale Ave., Phila., Pa.
R. A. Jones & Co., Box 485, Cincinnati
Laub Engineering Co., 244 N. San Marino Ave., San Gabriel, Calif.
Newman Tallow & Soap Mach. Co., 3601 S. Iron St., Chicago (Used)
Pneumatic Scale Corp., Quincy 71, Mass.
F. B. Redington Co., 112 Sangamon St., Chicago
Triangle Package Machinery Co., 6633 W. Diversey Blvd., Chicago 51

LINSEED OIL

Archer-Daniels-Midland Co., Minneapolis, Minn.
Falk & Co., Pittsburgh
Spencer Kellogg & Sons, 98 Delaware Ave., Buffalo, N. Y.
Pacific Vegetable Oil Corp., 1145 S. 10 St., Richmond, Calif.
J. H. Redding, Inc., 17 Battery Place, N. Y.
Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
Swift & Co., Hammond, Ind.
Arthur C. Trask Co., 4102 S. LaSalle St., Chicago
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Woburn Chem. Corp., 1200 Harrison Ave., Kearny, N. J.

LINSEED OIL FATTY ACIDS

Archer-Daniels-Midland Co., Minneapolis, Minn.
Falk & Co., Pittsburgh 30
A. Gross & Co., 295 Madison Ave., N. Y. 17
Swift & Co., Hammond, Ind.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Woburn Chem. Corp., 1200 Harrison Ave., Kearny, N. J.
G. S. Ziegler & Co., Box 348, Great Neck, N. Y.

LINSEED OIL SOAP (see Potash Soaps)

LIQUID SOAPS AND BASES (see Potash Soaps)

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Chas. B. Chrystal Co., 53 Park Pl., N. Y. 7
E. I. du Pont de Nemours & Co., Wilmington
Michigan Chemical Corp., St. Louis, Mich.
Merck & Co., Rahway, N. J.
Morton Chem. Co., 110 N. Wacker Dr., Chicago 6
Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
Tamm Industries, 228 N. La Salle St., Chicago
Westvaco Chem. Div., 161 E. 42nd St., N. Y.
Whittaker, Clark & Daniels, 100 Church St., N. Y.

MAGNESIUM OXIDE

Dow Chem. Co., Midland, Mich.
Morton Chem. Co., 110 N. Wacker Dr., Chicago 6
S. B. Penick & Co., NYQ Chem. Div., 100 Church St., 6. Y. 8
Westvaco Mineral Prods. Div., 161 E. 42nd St., N. Y.

MAGNESIUM STEARATE (see Stearates)

MAHOGANY SULFONATES (see Petroleum Sulfonates)

MAHOGANY SOAP (see also Naphthenic Acids; Naphthalene Sulfonates; Sulfonates)

Amoco Chems. Corp., 910 S. Michigan Ave., Chicago
Continental Oil Co., 1270 Ave. of Americas, N. Y. 20
Emery Industries, 4300 Carew Tower, Cincinnati
Harchem Div., Box 178, Newark, N. J.
Oronite Chemical Co., 200 Bush St., San Francisco
Pennotex Oil Corp., Box 187, Sparta, N. J.
Pennsylvania Refining Co., Butler, Pa.
Sonneborn Chem. & Refin'g Corp., 300 4th Ave., N. Y. 10
Sun Oil Co., 1608 Walnut St., Phila. 3

MALATHION

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.

MALATHION FORMULATIONS

Baird & McGuire, Inc., Holbrook, Mass.
California Spray-Chemical Corp., Richmond, Calif.
Diamond Alkali Co., Union Commerce Bldg., Cleveland
Dow Chem. Co., Midland, Mich.
Geigy Agri. Chems., Ardsley, N. Y.
General Chemical Div., 40 Rector St., N. Y.
McLaughlin, Gormley, King Co., 1715 5th St., Minneapolis
Olin Mathieson Chem. Corp., Baltimore 3
S. P. Penick & Co., 100 Church St., N. Y. 8
Prentiss Drug & Chem. Co., 101 W. 31 St., N. Y.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Thompson-Hayward Chem. Co., 2915 SW Blvd., Kansas City 8
Uncle Sam Chemical Co., 573 W. 131st St., N. Y.
James Varley & Sons, 1200 Switzer Ave., St. Louis 15

MANILA (see Gums)

MARBLE FLOUR (see Listings under Abrasives and Fillers)

MARKING MACHINES (see Coding Machines)

MASKING COMPOUNDS (see also perfuming compounds)

Aromatic Products, Inc., 235 4th Ave., N. Y. 3
Pierre Coutin Associates, 118 E. 28th St., N. Y.
Gerard J. Danco Int. Corp., 5 E. 19 St., N. Y. 3
Dodge & Olcott, Inc., 180 Varick St., N. Y.
Dragoco, Inc., 250 W. Broadway, N. Y. 13
Felton Chem. Co., 603 Johnson Ave., Bklyn.
Firmenich, Inc., 250 W. 18th St., N. Y.
Flam-Haft Laboratories, 8 E. 12 St., N. Y. 3
Fleuroma, Inc., 38 W. 21st St., N. Y. 10
Florasynt Laboratories, 900 Van Nest Ave., N. Y.
Fries & Fries, Inc., 110 E. 70th St., Cincinnati
Fritzsche Brothers, Inc., 76 9th Ave., N. Y.
Gunning & Gunning, Inc., 305 E. 46 St., N. Y. 17
Heyden Newport Chem. Corp., 342 Madison Ave., N. Y. 17
Givaudan-Delawanna, Inc., 321 W. 44th St., N. Y.
International Flavors & Fragrances, Inc., 521 W. 57 St., N. Y. C.
Lautier Fils, Inc., 321 5th Ave., N. Y.

MASKING COMPOUNDS (Contd.)

Magnus, Mabee & Reynard, 16 Debrosses St., N. Y.
A. Maschmeijer, Jr. Div., 630 5th Ave., N. Y.
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.
Noville Essential Oil Co., 1312 5th St., N. Bergen, N. J.
Orbis Prods. Corp., 601 W. 26th St., N. Y.
S. B. Penick & Co., 100 Church St., N. Y. 8
Perry Bros., 61-12 32nd Ave., Woodside 77, N. Y.
Polack's Frutal Wks., Inc., 33 Sprague Ave., Middletown, N. Y.
Reynaud, Ltd., 900 21 St., Union City, N. J.
Rhodia, Inc., 60 E. 56th St., N. Y.
P. Robertet, Inc., 221 4th Ave., N. Y. 3
Roubechez, Inc., 8 E. 12th St., N. Y.
Schimmel & Co., 601 W. 26th St., N. Y.
Synfleur Scientific Laboratories, Monticello, N. Y.
Syntomatic Corp., 114 E. 32nd St., N. Y.
Tombarel Prods. Co., 725 Broadway, N. Y.
Ungerer & Co., 161 Ave. of Americas, N. Y.
Van Dyk & Co., Belleville 9, N. J.
Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.
Verona Aromatics, 26 Verona Ave., Newark, N. J.

MECHANIC'S HAND PASTE (see Hand Soap)

MEDICINAL SOAPS (Cake)

Armour & Co., 1355 W. 31st St., Chicago
Hewitt Soap Co., 333 Linden Ave., Dayton, O.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago

MEDICINAL SOAPS, LIQUID (see Potash Soaps)

MGK REPELLENT 11

McLaughlin Gormley King Co., 1715 5th St., SE, Minneapolis

MGK REPELLENT 326

McLaughlin Gormley King Co., 1715 5th St., SE, Minneapolis

MENTHOL (see also Essential Oils)

Aromatic Prods., 235 4th Ave., N. Y. 3
Biddle Sawyer Corp., 20 Vesey St., N. Y. 7
Consumers Import Co., 350 Fifth Ave., N. Y.
Dodge & Olcott, Inc., 180 Varick St., N. Y.
Dragoco, Inc., 250 W. Broadway, N. Y.
P. R. Dreyer, 601 W. 26th St., N. Y.
Enco Chem. Corp., 441 Lexington Ave., N. Y.
Felton Chem. Co., 603 Johnson Ave., B'klyn, 37
Florasynth Laboratories, 900 Van Nest Ave., N. Y.
Fritzsche Bros., Inc., 76 Ninth Ave., N. Y.
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.
Glidden Co., Jacksonville, Fla.
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y. 10
Heyden Newport Chemical Corp., 342 Madison Ave., N. Y. 17
Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., N. Y.
Marubeni-Iida, Inc., 39 Broadway, N. Y. 6
McKesson & Robbins, Inc., 155 E. 42nd St., N. Y.
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.
Orbis Products Corp., 601 W. 26th St., N. Y.
Polak's Frutal Works, 33 Sprague Ave., Middletown, N. Y.
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Schimmel & Co., 601 W. 26th St., N. Y.
Shulton, Inc., 630 5 Ave., N. Y.
Tombarel Prods., 725 Broadway, N. Y. 3

MERCAPTANS (see Thioglycolic Acid)

METAL POLISH (see Polishes, Metal)

METALLIC SOAPS (see Stearates)

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Amsco Solvents & Chemicals Co., 4619 Reading Road, Cincinnati
Buffalo Solvents & Chemicals Corp., Box 73 Station B, Buffalo, N. Y.
Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago
Commercial Solvents Corp., 260 Madison Ave., N. Y.
Dixie Solvents & Chems. Co., Dixie Highway, Louisville, Ky.

E. I. du Pont de Nemours & Co., Wilmington, Del.
Hercules Powder Co., Wilmington, Del.
Heyden Newport Chemical Corp., 342 Madison Ave., N. Y. 17
Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis, Ind.
Merck & Co., Rahway, N. J.
Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis
Nitrogen Div., 40 Rector St., N. Y.
Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland
Olin Mathieson Chem. Corp., Baltimore 3
Reichhold Chemicals, Inc., White Plains, N. Y.
Southern Solv. & Chem. Co., 917 Jefferson Highway, New Orleans
Texas Solvents & Chemicals Co., 8501 Market St., Houston, Texas
Toledo Sols. & Chems. Co., 4051 South Ave., Toledo, O.
Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17
Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit
Wisconsin Sols. & Chems. Corp., 1719 S. 83rd St., Milwaukee, Wisc.
Wolverine Solv. & Chem. Co., 2940 Stafford Ave., SW, Grand Rapids

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E. I. du Pont de Nemours & Co., Wilmington
Geigy Agri. Chems., Ardsley, N. Y.

METHOXYCHLOR FORMULATIONS

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California Spray-Chemical Corp., Richmond, Calif.
E. I. du Pont de Nemours & Co., Wilmington
Fuld Bros., 702 S. Wolfe St., Baltimore
Geigy Agri. Chems., Ardsley, N. Y.
General Chemical Div., 40 Rector St., N. Y.
Hub States Chem. & Equip. Co., 1255 N. Windsor St., Indianapolis
Hysan Prods. Co., 930 W. 38th Pl., Chicago
McLaughlin, Gormley, King Co., 1715 5th St., S.E., Minneapolis
S. B. Penick & Co., 100 Church St., N. Y. 8
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1
Private Brands, Inc., 300 S. 3 St., Kansas City, Kan.
Residex Corp., 1500 W. Elizabeth Ave., Linden, N. J.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Warsaw Chem. Co., Warsaw, Ind.

METHYL ANTHRANILATE (see also Aromatic Chemicals)

Aromatic Prods., 235 4th Ave., N. Y. 3
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Dodge & Olcott, Inc., 180 Varick St., N. Y. 14
Dow Chemical Co., Midland, Mich.
Felton Chemical Co., 603 Johnson Ave., Brooklyn, N. Y.
Florasynth Labs., 900 Van Nest Ave., N. Y.
Fritzsche Bros., 76 9th Ave., N. Y. 11
Givaudan-Delawanna, Inc., 321 W. 44th St., N. Y.
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y. 13
Newman-Buslee & Wolfe, 5800 Northwest Highway, Chicago
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.
Orbis Products Corp., 601 W. 26 St., N. Y.
Polak's Frutal Works, 33 Sprague Ave., Middletown, N. Y.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Schimmel & Co., 601 W. 26th St., N. Y.
Shulton, Inc., 630 5th Ave., N. Y. C.
Ungerer & Co., 161 Ave. of Americas, N. Y. 13
Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.
Verona Aromatics, 26 Verona Ave., Newark 4, N. J.

METHYL BROMIDE

Amer. Potash & Chem. Corp., 3030 W. 6th St., Los Angeles
Dow Chemical Co., Midland, Mich.
Kolker Chem. Co., St. Louis, Mich.
Westvaco Chem. Div., 161 E. 42nd St., N. Y.
Wyandotte Chemicals Corp., Wyandotte, Mich.

METHYL CELLULOSE

Antara Chemicals, 435 Hudson St., N. Y. 14
Dow Chem. Co., Midland, Mich.
Hercules Powder Co., 961 Market St., Wilmington, Del.

METHYL CHLORIDE

American Potash & Chem. Corp., 3030 W. 6th St., Los Angeles 54
Diamond Alkali Co., Union Commerce Bldg., Cleveland.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington
Kolker Chem. Co., 600 Doremus Ave., Newark 5, N. J.
Solvay Process Div., 61 Broadway, N. Y.
Virginia Smelting Co., W. Norfolk, Va.

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Celanese Corp. of America, 180 Madison Ave., N. Y. 16
Dixie Sols. & Chems. Co., Dixie Hgwy., Louisville
Enjay Co., 15 W. 51 St., N. Y. 9
Hoosier Sols. & Chems. Corp., 1650 Luett Ave., Indianapolis
Missouri Sols. & Chems. Co., 419 De Soto Ave., St. Louis 7
Nitrogen Div., 40 Rector St., N. Y.
Ohio Sols. & Chems. Co., 3470 W. 140 St., Cleveland
Olin Mathieson Chem. Corp., Baltimore 3
Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
Shell Chem. Corp., 50 W. 50 St., N. Y.
Southern Sols. & Chem. Corp., 917 Jefferson Hgwy., New Orleans
Texas Sols. & Chems. Co., 8501 Market St., Houston
Toledo Sols. & Chems. Co., 4051 South Ave., Toledo, O.
Union Carbide Chems. Co., 30 E. 42 St., N. Y.
Western Sols. & Chems. Co., 6472 Selkirk Ave., Detroit
Wisconsin Sols. & Chems. Corp., 1719 S. 83 St., Milwaukee
Wolverine Sols. & Chems. Co., 2940 Stafford Ave., Grand Rapids

METHYL SALICYLATE (Artificial Wintergreen) (see also Aromatic Chemicals)

Aromatic Products, Inc., 235 4th Ave., N. Y. 3
Chemo Puro Mfg. Corp., 60 E. 42 St., N. Y. C.
Dodge & Olcott, Inc., 180 Varick St., N. Y. 14
Dow Chemical Co., Midland, Mich.
Felton Chemical Co., 603 Johnson Ave., Brooklyn, N. Y.
Florasynth Laboratories, 900 Van Nest Ave., N. Y.
Fritzsche Bros., Inc., 76 Ninth Ave., N. Y.
Givaudan-Delawanna, Inc., 321 W. 44th St., N. Y.
Heyden Newport Chemical Corp., 342 Madison Ave., N. Y. 17
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y. 13
Merck & Co., Rahway, N. J.
Monsanto Chemical Co., St. Louis 24, Mo.
Neumann, Buslee & Wolfe, Inc., 5800 Northwest Highway, Chicago
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.
Orbis Products Corp., 601 W. 26th St., N. Y.
S. B. Penick & Co., 100 Church St., N. Y. 8
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Schimmel & Co., 601 W. 26th St., N. Y.
Shulton, Inc., 630 5 Ave., N. Y.
Ungerer & Co., 161 Ave. of Americas, N. Y. 13
Verona Aromatics, 26 Verona Ave., Newark 4, N. J.
R. D. Webb & Co., 137 Boston Post Rd., Cos Cob, Conn.

METHYLENE CHLORIDE

American Potash & Chem. Corp., 3030 W. 6th St., Los Angeles
Diamond Alkali Co., Union Commerce Bldg., Cleveland
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington
Frontier Chem. Co., Wichita, Kan.
Kolker Chem. Corp., 600 Doremus Ave., Newark, N. J.
Solvay Process Div., 61 Broadway, N. Y.
Stauffer Chem. Co., 380 Madison Ave., N. Y.

MICROCRYSTALLINE WAXES (see Waxes, Microcrystalline)

MILDEW PREVENTIVES

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Antara Chemicals, 435 Hudson St., N. Y. 14
Biddle Sawyer Corp., 20 Vesey St., N. Y. 7
Ciba Co., Fair Lawn, N. J.
Chemo Puro Mfg. Co., 60 E. 42 St., N. Y. C.
Click Chem. Corp., 601 Columbus Ave., Mount Vernon, N. Y.
Cuprinol Div., Simsbury, Conn.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington
Fine Organics, Inc., 205 Main St., Lodi, N. J.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Heyden Newport Chemical Corp., 342 Madison Ave., N. Y. 17
Hilton-Davis Chem. Co., 2235 Langdon Farm Rd., Cincinnati
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Mallinckrodt Chemical Wks., St. Louis 7
Monsanto Chemical Co., St. Louis 24, Mo.
Olin Mathieson Chem. Corp., Baltimore 3
Oronite Chem. Co., 200 Bush St., San Francisco
Puro Co., 2801 Locust St., St. Louis
Prior Chemical Corp., 420 Lexington Ave., N. Y.
Refined Products Co., 624 Schuyler Ave., Lyndhurst, N. J.
Rohm & Haas Co., 222 W. Washington Square, Phila. 5
Sindar Corp., 321 W. 44th St., N. Y. 36
R. T. Vanderbilt Co., 230 Park Ave., N. Y. 17
Witco Chem. Co., 122 E. 42nd St., N. Y. 17

MILLS, SOAP POWDER (see Soap Mills)

MINERAL OIL

Amoco Chems. Corp., 912 S. Michigan Ave., Chicago
Atlantic Refining Co., 260 S. Broad St., Philadelphia
Continental Oil Co., 1270 Av. of Americas, N. Y. 20
Esso Standard Oil Co., 15 W. 51st St., N. Y. 19
Pennsylvania Refining Co., Butler, Pa.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Socony Mobil Oil Co., 150 E. 42nd St., N. Y. 17
Sonneborn Chem. & Refining Corp., 300 4th Ave., N. Y. 10
Standard Oil Co. (Calif.), 225 Bush St., San Francisco
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

MINERAL SOAP (see Petrolatum)

MIRBANE OIL (Nitrobenzene) (see also Essential Oils)

Dodge & Olcott, Inc., Varick St., N. Y. 14
E. I. du Pont de Nemours & Co., Wilmington
Felton Chem. Co., 603 Johnson Ave., Bklyn. 37
Fritzsche Bros., 76 9th Ave., N. Y. 11
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y. 13
National Aniline Div., 40 Rector St., N. Y.
Orbis Prods. Corp., 601 W. 26 St., N. Y.
Roubechez, Inc., 8 E. 12th St., N. Y.
Schimmel & Co., 601 W. 26th St., N. Y.
Ungerer & Co., 161 Ave. of Americas, N. Y. 13

MIXERS (Portable)

Alsop Engineering Corp., Milldale, Conn.
Conn. & Co., S. Marion St., Warren, Pa.
Craddock Equipment Co., 1507 A St., Wilmington, Del.
Eastern Industries, Inc., Hamden 14, Conn.
Ertel Engineering Corp., West Front St., Kingston, N. Y.
First Machy. Corp., 209 10 St., Bklyn. 15 (Used)
Houchin Division, 300 Straight St., Paterson, N. J.
Mixing Equipment Co., Inc., 167 Mt. Read Blvd., Rochester, N. Y.
Morehouse-Cowles, Inc., 1150 San Fernando Rd., Los Angeles
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh
Rapids Machy. Co., Marion, Ia.
Chas. Ross & Son Co., 148-156 Classon Ave., Bklyn.
Terris Div. Consolidated Siphon Supply Co., 22 Wooster St., N. Y.
Vickers Ltd., Westminster, London, Eng.
Young Machy. Co., Muncy, Pa.

MIXING MACHINERY (Change Can Mixers)

Arthur Colton Co., 3431 E. Lafayette, Detroit
Conn. & Co., 9 S. Marion St., Warren, Pa.
J. H. Day Co., Cincinnati 12
First Machy. Corp., 209 10 St., Bklyn. 15 (Used)
H. Hockmeyer & Co., 341 Coster St., N. Y.
Houchin Division, 300 Straight St., Paterson, N. J.
Kent Machine Works, 39 Gold St., Brooklyn
Rapids Machy. Co., Marion, Iowa
Read Standard Div., York, Pa.
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
Chas. Ross & Son Co., 148 Classon Ave., Brooklyn
Skinner Engine Co., Erie, Pa.

MIXING MACHINERY (General)

Alsop Engineering Corp., Milldale, Conn.
Brower Mfg. Co., 411 N. 3rd St., Quincy, Ill.
Arthur Colton Co., 3431 E. Lafayette, Detroit
Conn. & Co., 9 S. Marion St., Warren, Pa.
Craddock Equipment Co., 1507 A St., Wilmington, Del.
J. H. Day Co., Cincinnati 12
Eastern Industries, Inc., Hamden 14, Conn.
Ertel Engineering Corp., W. Front St., Kingston, N. Y.
First Machy. Corp., 209 10 St., Bklyn. 15 (Used)
Gifford-Wood Co., 420 Lexington Ave., N. Y. C.
Girdler Process Equipment Div., Louisville, Ky.
B. F. Gump Co., 1338 S. Cicero Ave., Chicago
Houchin Division, 300 Straight St., Paterson, N. J.
Industrial Process Engineers, 8 Lister Ave., Newark, N. J.
Kent Machine Works, 39 Gold St., Brooklyn
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.
G. Mazzoni, Busto Arsizio, Italy
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
Mixing Equipment Co., 167 Mt. Read Blvd., Rochester, N. Y.
Munson Mill Machy. Co., 210 Seward Ave., Utica, N. Y.

Paterson-Kelley Co., East Stroudsburg, Pa.
Rapids Machy. Co., Marion, Ia.
 Read Standard Division, York, Pa.
 Chas. Ross & Son Co., 148 Classon Ave., Brooklyn
 Raymond Pulverizer Div., 1314 N. Branch St., Chicago
 Scottdel, Inc., Swanton, Ohio
 Henry Simon Ltd., Cheadle Heath, Stockport, England
 Sprout, Waldron & Co., Muncy, Pa.
 F. J. Stokes Corp., 5500 Tabor Rd., Phila.
 Strong-Scott Mfg. Co., 451 Taft N.E., Minneapolis, Minn.
 Sturtevant Mill Co., Dorchester, Moston 22, Mass.
 Terris Div. Consolidated Siphon Supply Co., 22 Wooster St., N. Y.
 U. S. Stoneware Co., 60 E. 42 St., N. Y.
 Young Machy. Co., Muncy, Pa.

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Abbe Engineering Co., Little Falls, N. J.
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 J. H. Day Co., Cincinnati 12
First Machy. Corp., 209 10 St., Bklyn. 15 (Used)
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 Houchin Division, 300 Straight St., Paterson, N. J.
 Industrial Process Engineers, 8 Lister Ave., Newark, N. J.
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 Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
 Munson Mill Machy. Co., 210 Seward Ave., Utica, N. Y.
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
 Paterson-Kelley Co., East Stroudsburg, Pa.
 H. K. Porter Co., 49th & Harrison Sts., Pittsburgh
Rapids Machy. Co., Marion, Ia.
 Robinson Mfg. Co., Muncy, Pa.
 Scottdel, Inc., Swanton, Ohio
 Henry Simon Ltd., Cheadle Heath, Stockport, England
 Sprout, Waldron & Co., Muncy, Pa.
 F. J. Stokes Machine Co., 5500 Tabor Rd., Phila.
 Strong-Scott Mfg. Co., 451 Taft N.E., Minneapolis, Minn.
 Struthers-Wells Corp., Warren, Pa.

Sturtevant Mill Co., Park & Clayton Sts., Boston
 U. S. Stoneware Co., 60 E. 42 St., N. Y.
 Young Machy Co., Muncy, Pa.

MONOCHLORBENZENE

Columbia-Southern Chem. Corp., Pittsburgh
 Dow Chem. Co., Midland, Mich.
Hooker Chem. Corp., Niagara Falls, N. Y.
 Monsanto Chem. Co., St. Louis, Mo.
 Solvay Process Div., 61 Broadway, N. Y.

MONOETHANOLAMINE (see listings under Ethanolamines)

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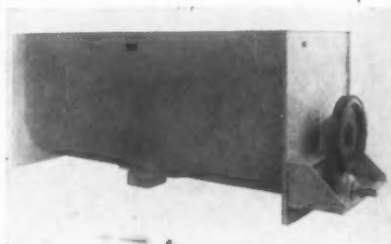
ABC Compounding Co., Oakcliff & Harwell Rds., Atlanta, Ga.
Baird & McGuire, Inc., Holbrook, Mass.
 California Spray-Chemical Corp., Richmond, Calif.
 Chem. Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
 Chem. Service of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
 Chipman Chemical Co., Bound Brook, N. J.
 Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington
Fairfield Chem. Div., 441 Lexington Ave., N. Y.
Geigy Agri. Chems., Ardsley, N. Y.
General Chemical Div., 40 Rector St., N. Y.
 R. M. Hollingshead Corp., Camden, N. J.
 Hub States Chems. & Equipment, 1255 N. Windsor St., Indianapolis
 James Huggins & Son, 239 Medford St., Malden, Mass.
 Industrial Materials Co., 1017 McCall St., Houston
 Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
 Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
 Michigan Chem. Corp., St. Louis, Mich.
 S. B. Penick & Co., 100 Church St., N. Y. 8
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y.
 Private Brands, Inc., 300 S. 3 St., Kansas City, Kan.
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
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Cincinnati 2, Ohio, 49 Central Ave.	Main 1-4254
Cleveland 13, Ohio, 1220 W. 9th St.	Cherry 1-2693
Detroit 7, Mich., 1900 E. Jefferson Ave.	Lorain 7-2414
Kansas City 11, Mo., 3718 Broadway	Valentine 1-6466
Los Angeles 22, Calif., 5052 E. Slaucon Ave.	Ludlow 3-4361
Mid-Atlantic (Newark 5, N.J.) 196-202 Blanchard St.	Market 2-0166
New Orleans 12, La., 606 Baronne Bldg., 305 Baronne St.	Jackson 2-6117
New York 16, N. Y., 260 Madison Ave.	Lexington 2-6420
St. Louis 17, Mo., 7890 Folk Ave.	Mission 5-3330
San Francisco 4, Calif., 110 Sutter St.	Exbrook 2-1611

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Velsicol Chem. Corp., 330 E. Grand Ave., Chicago
York Chem. Co., 23 Dean St., Bklyn. 1

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Baird & McGuire, Inc., Holbrook, Mass.
Chem. Service of Balto., Howard & West Sts., Balto.
Chemo Puro Mfg. Co., 60 E. 42 St., N. Y. C.
Click Chemical Corp., Columbus & Carleton Aves., Mt. Vernon, N. Y.
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
Dow Chemical Co., Midland, Mich.
Fine Organics, Inc., 205 Main St., Lodi, N. J.
Fuld Bros., 702 S. Wolfe St., Baltimore
Geigy Agri. Chems., Ardsley, N. Y.
James Good Co., 2107 Susquehanna Ave., Philadelphia
R. H. Hollingshead Corp., Camden, N. J.
Hub States Chems. & Equipment, 1255 N. Windsor St., Indianapolis
Hysan Prods. Co., 930 W. 38th Pl., Chicago
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Merck & Co., Rahway, N. J.
Michigan Chem. Corp., St. Louis, Mich.
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City 2, N. J.
McLaughlin, Gormley, King Co., 1715 5th St., S.E., Minneapolis
Monsanto Chemical Co., St. Louis 24, Mo.
Pace, Inc., MacArthur Rd., Wilmington 99, Dela.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Per-Mo Products Co., 1716 E. 36th St., Kansas City, Mo.
Plastics & Coal Chemicals Div., 40 Rector St., N. Y. C.
Peterson Filling & Packaging Co., Hegele Lane, Danville, Ill.
Puro Co., 2801 Locust St., St. Louis
Residex Corp., 1500 W. Elizabeth Ave., Linden, N. J.
Rohm & Haas Co., 222 W. Washington Sq., Philadelphia
Solvay Process Div., 61 Broadway, N. Y.
Thompson-Hayward Chemical Co., 2915 S. W. Blvd., Kansas City, Mo.
Trio Chem. Wks., 341 Scholes St., Bklyn. 6
Jos. Turner & Co., Ridgefield, N. J.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis

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Hewitt Soap Co., 333 Linden Ave., Dayton, O.
Lightfoot Co., 380 Madison Ave., N. Y. C.
Los Angeles Soap Co., 617 E. 1st St., Los Angeles
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago

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American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Arkansas Louisiana Chem. Co., Shreveport, La.
Diamond Alkali Co., Union Commerce Bldg., Cleveland
E. I. du Pont de Nemours & Co., Wilmington
Dow Chemical Co., Midland, Mich.
Frontier Chem. Co., Wichita, Kan.
General Chemical Div., 40 Rector St., N. Y.
Heyden Newport Chemical Corp., 342 Madison Ave., N. Y. 17
Hooker Chemical Corp., Niagara Falls, N. Y.
Monsanto Chemical Co., St. Louis 24, Mo.
Morton Chem. Co., 110 N. Wacker Dr., Chicago 6
Olin Mathieson Chem. Corp., Baltimore 3
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Reichhold Chemicals, Inc., White Plains, N. Y.
Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
Rumford Chem. Wks., Rumford, R. I.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Wyandotte Chemicals Corp., Wyandotte, Mich.

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MYRISTYL ALCOHOL (see Fatty Alcohols)

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Plastics & Coal Chem. Div., 40 Rector St., N. Y. 6
Reilly Tar & Chem. Corp., Merchants Bank Bldg., Indianapolis
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Standard Chlorine Chem. Co., 115 Jacobus Ave., South Kearny, N. J.
Tar Residuals, Inc., 420 Lexington Ave., N. Y.
U. S. Steel Corp., Pittsburgh 30
Velsicol Corp., 330 E. Grand Ave., Chicago
Witco Chem. Co., 122 E. 42 St., N. Y. 17

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E. I. du Pont de Nemours & Co., Wilmington
Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
Fine Organics, Inc., 205 Main St., Lodi, N. J.
Geigy Industrial Chems., Ardsley, N. Y.
Marchon Prods., Whitehaven, Cumberland, England.
M. Michel & Co., 90 Broad St., N. Y. 4
National Aniline Div., 40 Rector St., N. Y.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City, N. J.
Oronite Chem. Co., 200 Bush St., San Francisco
Pennsylvania Refining Co., Butler, Pa.
Sonneborn Chem. & Refin'g Corp., 300 4th Ave., N. Y.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.

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Pennsylvania Refining Co., Butler, Pa.
Robeco Chems. Inc., 25 E. 26th St., N. Y. 10
Sonneborn Chem. & Refin'g Corp., 300 4th Ave., N. Y.
Sun Oil Co., 1608 Walnut St., Phila. 3
Texaco, Inc., 135 E. 42nd St., N. Y. 17

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U. S. Industrial Chems. Co., 99 Park Ave., N. Y. 16

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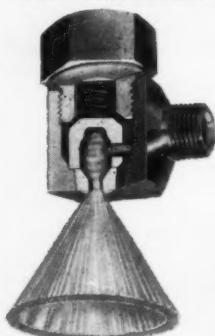
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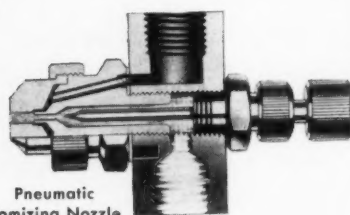
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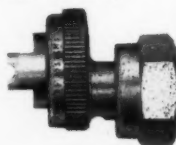
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Lightfoot Co., 380 Madison Ave., N. Y. C.
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Johnson-March Corp., 1724 Chestnut St., Phila. 3
G. Mazzoni, Busto Arsizio, Italy
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Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

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Leghorn Trading Co., 141 E. 44th St., N. Y.
J. H. Redding Co., 17 Battery Pl., N. Y.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Sergeant Chem. Co., 7 Dey St., N. Y.
Smith-Weihman Co., 15 Moore St., N. Y.
Strohmeyer & Arpe Co., 139 Franklin Ave., N. Y. 13
Welch, Home, & Clarke Co., 1 Hudson St., N. Y. 13

OLIVE OIL SOAPS (see Castile Soaps, Textile Soaps)

OPTICAL BRIGHTENERS

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Ciba Co., Fair Lawn, N. J.
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
General Dyestuff Co., 435 Hudson St., N. Y.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Fiber Chem. Corp., Matawan, N. J.
Geigy Industrial Chems., Ardsley, N. Y.
Hilton-Davis Chem. Co., 2235 Langdon Farm Rd., Cincinnati 13
National Aniline Div., 40 Rector St., N. Y.
Sandoz, Inc., 61 Van Dam St., N. Y. 13

ORTHODICHLOROBENZENE

Columbia-Southern Chem. Corp., Pittsburgh
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Monsanto Chemical Co., St. Louis, Mo.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Solvay Process Div., 61 Broadway, N. Y.
Standard Chlorine Chem. Co., South Kearny, N. J.

OXALIC ACID

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
E. I. du Pont de Nemours & Co., Wilmington, Del.
General Chemical Div., 40 Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Hooker Chemical Corp., Niagara Falls, N. Y.
Mallinckrodt Chemical Wks., St. Louis, Mo.
Merck & Co., Rahway, N. J.
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Victor Chemical Wks., 155 N. Wacker Dr., Chicago 6

PACKAGING (for the Trade)

(See also Aerosol Filling for the Trade)

Acepak, Inc., 7230 S. Chicago Ave., Chicago 19
A-M-R Chem. Co., 985 E. 35th St., Bklyn. 10
Averil, Inc., 6780 NW 37 Ct., Miami, Fla.
B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
C. P. Baker & Co., 501 N. 11 St., Phila. 23
G. Barr & Co., 3601 S. Racine Ave., Chicago
Bixon Chem. Co., 1163 Southern Blvd., N. Y. 59
Britex Corp., 17 Lewis Wharf, Boston
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.
Capitol Packaging Co., 1501 N. 31 Ave., Melrose Park, Ill.
Chemical Enterprises, 1131 W. Devon Ave., Chicago 40
Chem. Prods. Co. of N. J., 207 Astor St., Newark, N. J.
Claire Mfg. Co., 1200 N.W. 23rd Ave., Ft. Lauderdale, Fla.
Clarkson Laboratories, 920 N. Darien St., Phila. 23
Continental Filling Corp., 123 N. Hazel, Danville, Ill.
Crompton & Knowles Packaging Corp., Berkshire St., Holyoke, Mass.
Curley Co., Inc., 1432 N. Randolph St., Phila. 22
Dominion Prods. Inc., 10-40 44th Dr., L.I.C., N. Y.
Federal Packaging Corp., 12100 South Peoria St., Chicago
Fluid Chem. Co., 878 Mt. Prospect Ave., Newark, N. J.
Frontier Chem. Prods., Inc., 119 E. Soper St., St. Louis
Gard Industries, Inc., 1739 Harding Rd., Northfield, Ill.
R. Gesell, Inc., 200 W. Houston St., N. Y.
Help, Inc., 122 W. Kinzie St., Chicago
R. Hurwich Co., 1043 Hearst Ave., Berkeley, Calif.
Hysan Prods. Co., 930 W. 38th Pl., Chicago
Iver's-Lee Co., 215 Central Ave., Newark, N. J.
Jones-Hamilton Co., 455 Wells Ave., Newark, Calif.
Klix Chemical Co., 551 Railroad Ave., South San Francisco, Calif.
Manufacturers Aid Co., 721 Grand St., Hoboken, N. J.
Old Empire, Inc., Mt. Prospect & Verona Aves., Newark, N. J.
Pace, Inc., MacArthur Rd., Wilmington, Dela.
Paket, Inc., 9022 S. Baltimore St., Chicago
Peerless Chem. Co., 1300-02 N. Fulton Ave., Baltimore
Peterson Filling & Packg. Co., Hegeler Lane, Danville, Ill.
Private Brands, Inc., 300 S. 3rd St., Kansas City 18, Kan.
Products Packaging, Inc., 6400 Herman Ave., Cleveland 2
Puro Co., 2801 Locust St., St. Louis 3
W. T. Rawleigh Co., Freeport, Ill.
Reilly Chemical Co., P. O. Box 98, New Orleans, La.
John C. Stalford & Sons, 319 W. Pratt, Baltimore
John T. Stanley Co., 642 W. 30th St., N. Y.
Stevens Wiley Mfg. Co., 1601 W. Glenwood Ave., Phila.
Trio Chemical Wks., 341 Scholes St., Bklyn. 6
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
Van Pell Chem. & Supply Corp., 48 E. 1st St., N. Y. 3
Warsaw Chemical Co., Warsaw, Ind.

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American Can Co., 100 Park Ave., N. Y. 17
 American Colorotype Co., 1151 Roscoe St., Chicago
 Cellukraft Prods. Corp., 1401 4 Ave., New Hyde Park, N. Y.
 J. L. Clark Mfg. Co., Rockford, Ill.
 Container Corp. of America, 38 S. Dearborn St., Chicago
 Continental Can Co., 100 E. 42nd St., N. Y. 17
 Crown Cork & Seal Co., 9300 Ashton Rd., Phila.
 Walter Frank Organization, 4100 Warren Ave., Hillside, Ill.
 Gardner Board & Carton Co., Middletown, O.
 Gaylor Container Corp., 111 N. Fourth St., St. Louis
 Lehmann Printing & Lithographing Co., 300 2nd St., San Francisco
 Reynolds Metal Co., Richmond, Va.
 Schmidt Lithograph Co., 462 Second St., San Francisco
 Specialty Papers Co., Dayton, O.
 U. S. Printing & Lithograph Co., Beech St., Cincinnati

PACKAGING MACHINERY

Alsop Engineering Corp., Milldale, Conn.
 Anderson Bros. Mfg. Co., 1907 Kishwaukee St., Rockford, Ill.
 Arenco Machine Co., 25 W. 43rd St., N. Y.
 Bartelt Engineering Co., 1900 Harrison Ave., Rockford, Ill.
 Battle Creek Packaging Machines, Battle Creek, Mich.
 Bell-Pak Div., Oshkosh, Wisc.
 Brown Filling Machine Co., Box 452, Ann Arbor, Mich.
 F. L. Burt Co., 571-7th St., San Francisco 3
 Chisholm-Ryder Co., Hanover, Pa.
 Ciybourn Machine Corp., 6479 W. Avondale Ave., Chicago
 Arthur Colton Co., 3431 E. Lafayette, Detroit
 Consolidated Packaging Machy. Corp., 1400 West Ave., Buffalo
 Crown Cork & Seal Co., Baltimore, Md.
 Emhart Mfg. Co., Portland, Conn.
 Ertel Engineering Corp., W. Front St., Kingston, N. Y.
 Exact Weight Scale Co., 538 E. Town St., Columbus, O.
 FMC Packaging Mch. Div., 4972 Summerdale Ave., Phila., Pa.
 J. L. Ferguson, Joliet, Ill.
 First Machy. Corp., 209 10 St., Bklyn. 15 (Used)
 B. F. Gump Co., 1338 S. Cicero Ave., Chicago
 Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh 4, Pa.
 Island Equipment Corp., 1090 E. 31st St., Hialeah, Fla.
 Paul L. Karstrom Co., 1822 W. 74th St., Chicago
 Kartridg Pak Co., 9151 W. Fullerton Ave., Franklin Park, Ill.
 Karl Kiefer Machine Co., 923 Martin St., Cincinnati
 Labelette Co., 216 S. Jefferson, Chicago 6
 Laub Engineering Co., 244 N. San Marino Ave., San Gabriel, Calif.
 G. Diehl Mateer Co., Wayne, Pa.
 M. R. M. Co., 191 Berry St., Bklyn.
 John R. Nalbach Engineering Co., W. 6139 Ogden Ave., Chicago
 Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
 Packer Machinery Corp., 109 14th St., Bklyn.
 PMC Industries, 293 Hudson St., Hackensack, N. J.
 Pneumatic Scale Corp., Quincy 71, Mass.
 Rapids Machinery Co., Marion, Iowa
 Read Standard Corp., York, Pa.
 F. B. Redington Co., 112 S. Sangamon St., Chicago
 Scientific Filter Co., 59 Rose St., N. Y.
 Standard Conveyor Co., N. St. Paul, Minn.
 F. J. Stokes Machine Co., 5918 Tabor Rd., Philadelphia
 Stuyvesant Engineering Co., Lyndhurst, N. J.
 Triangle Packaging Machy. Corp., 6643 Diversey Ave., Chicago
 U. S. Automatic Box Machy. Co., Boston 31, Mass.
 U. S. Bottlers Machy. Co., 4019 N. Rockwell St., Chicago
 Weigh Right Automatic Scale Co., Mills Rd., Joliet, Ill.

PAILS (Wooden)

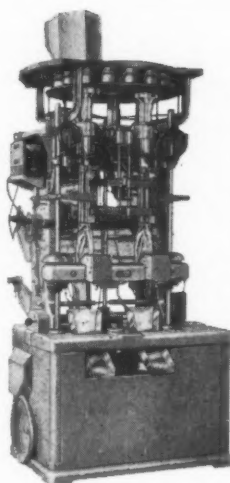
Beaver Mills, Keene, N. H.
 Eagle Woodenware Mfg. Co., Hamilton, O.
 Gambrinus Cooperage Works, Louisville
 Impervious Package Co., Keene, N. H.
 Menasha Woodenware Co., Menasha, Wis.
 Richmond Cedar Works, Richmond, Va.
 White Mop Wringer Co., Fultonville, N. Y.

PAILS, STEEL (Shipping Containers)

American Can Co., 100 Park Ave., N. Y.
 Bennett Industries, 122 Washington St., Peotone, Ill.
 Central Can Co., 2415 W. 19th St., Chicago
 Continental Can Co., 100 E. 42nd St., N. Y.
 Eastern Can Co., Keap St. & Kent Ave., Bklyn.
 Fein's Tin Can Co., Bush Terminal, Brooklyn
 Geuder, Paeschke & Frey Co., 324 N. 15th St., Milwaukee
 Inland Steel Container Co., 6532 S. Menard Ave., Chicago
 Jones & Laughlin Steel Corp., 3 Gateway Center, Pittsburgh

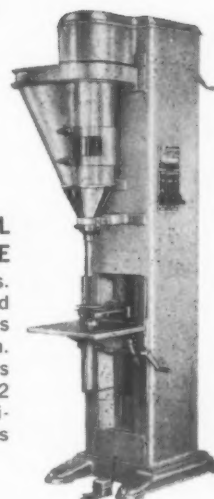


Symbols of Quality In Packaging



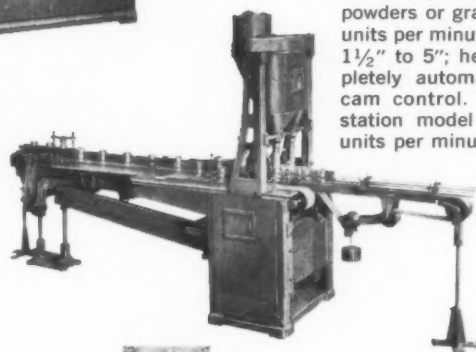
STOKESWRAP PACKAGING MACHINE

Forms, fills, heat seals and codes packages of powders, granules, liquids or semi-liquids in printed or unprinted film . . . automatically. Rate: from 40 to 140 packages per minute. Capacity: to 1½ lbs. Maximum package size: 5¼" wide x 12½" long. Automatic feeds: volumetric, auger, counting, net weight or liquid.



UNIVERSAL FILLING MACHINE

Fills powders, granules or pastes. Filling methods: cam-controlled auger, pressure packing, gross weight or combination auger-vacuum. Handles cans, boxes, jars, envelopes or bags . . . and net weight from 2 gms. to 10 lbs. or more. Semi-automatic operation up to 30 units or more per minute.



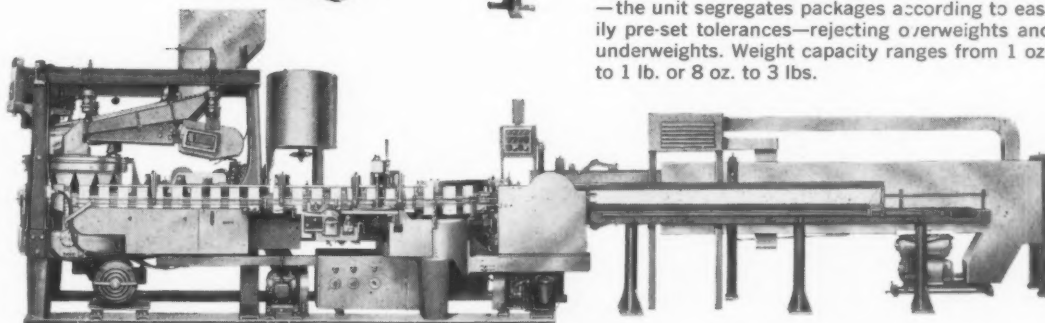
AUTOMATIC FILLER

Fills cans, boxes, jars or cartons with powders or granules. Rate: up to 60 units per minute. Adjustability: width 1½" to 5"; height ½" to 8". Completely automatic auger feed with cam control. Also available in 4-station model with speeds of 120 units per minute and up.



CHECKWEIGHING EQUIPMENT

High speed unit checkweighs up to 400 packages per minute detecting variations of as little as plus or minus ½% "on the fly." Fully automatic—the unit segregates packages according to easily pre-set tolerances—rejecting overweights and underweights. Weight capacity ranges from 1 oz. to 1 lb. or 8 oz. to 3 lbs.



NEVERSTOP CARTON FILLING & SEALING MACHINE

With volumetric fill—feeds and fills up to 300 cartons per minute with free-flowing products—sealing both top and bottom in one continuous, fully automatic operation. Also available with vibrametric fill—to fill and seal up to 450 cartons per minute. Six models available for a wide range of carton sizes and filling speeds.



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FMC Packaging Machinery Division

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Stokes & Smith Plant

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Choose the Right Size of PARADI®

from this time-saving checklist

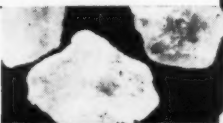
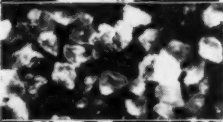
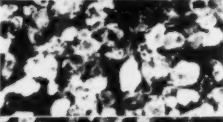
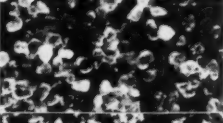
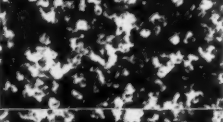
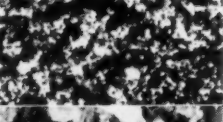
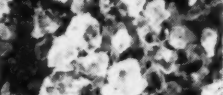
This checklist shows the many forms in which you can purchase PARADI (100% pure Hooker paradichlorobenzene).

Every one of the seven crystal sizes has its advantages, depending on how you plan to process or repackage it. All seven are shown here actual size.

To help square away your paradichlorobenzene requirements for this year, just route this page to the right people in your company. We've left space for their comments.

✓ PLEASE ROUTE TO:

- ☐ Purchasing
- ☐ Production
- ☐ Sales
- ☐ Research
- ☐ Return to Purchasing

SIZE AND DESCRIPTION:		COMMENTS:	CHECK HERE FOR:		
			Free 1-lb. sample	50-lb. trial drum (purchase)	Further information
PEA No. 1 Repackage these big sparkling PARADI crystals just as they come from the drum.					
PEA No. 2 A popular size for re-packaging in vaporizer cans.					
RICE No. 1 Smallest crystals recommended for direct repackaging. Excellent for shaker-top cans.					
RICE No. 2 Exceptionally free-flowing, easy packing, for fast refilling of power presses.					
RICE No. 3 For foot-operated presses you need a finer crystal like this—free-flowing but small enough to pack and compress easily.					
POWDERED Save time in melting and molding with this super-fine fast-melting size.					
GRANULATED This size is used as an agricultural insecticide and herbicide, and as a chemical intermediate.					

SEE FOR YOURSELF the extra sales appeal you can get with dry, sparkling PARADI. The brilliant, snowy crystals sublime *completely*—without stain or residue. They make firm, clean blocks and pellets of exceptional whiteness. You can get them in fiber drums—25, 50, 100 or 200 lbs. net.

When requesting samples, please use your company letterhead. Order trial drums of the sizes that match your needs. And tell us how else we can serve you—with technical data, helpful processing and packaging hints (ask for Bulletin No. 454), shipping information.

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203 Union Street, Niagara Falls, N. Y.

Sales Offices: Buffalo, N. Y.; Chicago, Ill.; Detroit, Mich.; Los Angeles, Calif.; New York, N. Y.; Niagara Falls, N. Y.; Philadelphia, Pa.; Tacoma, Wash.; Worcester, Mass. In Canada: Hooker Chemicals Limited, North Vancouver, B. C.



PAILS, STEEL (Shipping Containers) (Contd.)

National Steel Barrel Co., 3860 E. 91st St., Cleveland
Rheem Mfg. Co., 1701 Edgar Rd. W., Linden, N. J.
Southwestern Steel Container Co., 3301 S. Lamar St., Dallas
Stern Can Co., 71 Locust St., Boston 25
U. S. Steel Prods. Div., 30 Rockefeller Plaza, N. Y. 20
Vulcan Containers Ltd., Box 284, Toronto, Can.
Vulcan Containers Inc., Bellwood, Ill.
Vulcan Steel Container Co., 3315 N. 35th Ave., Birmingham, Ala.

PALLETS

Columbia Box Board Mills, Chatham, N. Y.
Ohio Boxboard Co., Rittman, O.
Waldorf Paper Prods. Co., St. Paul, Minn.

PALM KERNEL OIL

(see also Brokers and Dealers)

Amato Agency, Inc., 11 Broadway, N. Y. 4
Balfour Guthrie & Co., 67 Wall St., N. Y.
Irving R. Boody & Co., 42 Broadway, N. Y.
T. G. Cooper & Co., Cedar & Venango Sts., Phila.
Leghorn Trading Corp., 141 E. 44th St., N. Y.
Pacific Vegetable Oil Corp., 1145 S. 10th St., Richmond, Calif.
S. B. Penick & Co., 100 Church St., N. Y. 8
Smith-Weihman Co., 15 Moore St., N. Y.
Swift & Co., Hammond, Ind.
Welch, Home, & Clarke Co., 1 Hudson St., N. Y. 13

PALM OIL

Amato Agency, Inc., 11 Broadway, N. Y. 4
Balfour Guthrie & Co., 67 Wall St., N. Y.
T. G. Cooper & Co., Cedar & Venango Sts., Phila.
Eastern Industries, Ridgefield, N. J.
Hasselman, Seaman, de Ryss, Inc., 347 Madison Ave., N. Y. 17
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.
Pacific Vegetable Oil Corp., 1145 S. 10 St., Richmond, Calif.
J. H. Redding Co., 17 Battery Pl., N. Y.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Swift & Co., Hammond, Ind.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Zimmerman Alderson Carr Co., 25 Broadway, N. Y.

PALM OIL FATTY ACIDS

Amato Agency, Inc., 11 Broadway, N. Y. 4
American Int'l. Prod. Corp., 138 Liberty St., N. Y. 6
Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
Darling & Co., 4201 S. Ashland Ave., Chicago
E. F. Drew & Co., Boonton, N. J.
Emery Industries, 4300 Carew Tower, Cincinnati
A. Gross & Co., 295 Madison Ave., N. Y. 17
Harchem Div., Box 178, Newark, N. J.
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
Swift & Co., Hammond, Ind.
Vegetable Oil Prods., 5568 E. 61st, Los Angeles
Welch, Home, & Clarke Co., 1 Hudson St., N. Y. 13
Wilson-Martin Div., Snyder & Swanson, Phila., Pa.
Woburn Chem. Corp., 1200 Harrison Ave., Kearny, N. J.

PARA BLOCKS (see Deodorizing Blocks)

PARADICHLOROBENZENE

Columbia-Southern Chem. Corp., Pittsburgh
Dow Chemical Co., Midland, Mich.
Hooker Chem. Corp., Niagara Falls, N. Y.
Monsanto Chemical Co., St. Louis, Mo.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Solvay Process Div., 61 Broadway, N. Y.
Standard Chlorine Chem. Co., South Kearny, N. J.

PARADICHLOROBENZENE BLOCKS (see Deodorizing Blocks and Crystals)

PARAFFIN

Amoco Chems. Corp., 910 S. Michigan Ave., Chicago
Atlantic Refining Co., 260 S. Broad St., Philadelphia
Candy & Co., 2515 W. 35th St., Chicago 32
Continental Oil Co., 1270 Ave. of Americas, N. Y. 20
Cosden Petroleum Corp., Big Spring, Tex.



STEEL PAILS

1 through 12 gallons

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Grease Drums — 120-110-100 lb.

Fifteen Gallon Drums



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Vulcan chemists will work with you to develop a Hi-Bake protective interior lining to meet your specifications and packaging problems . . . Your assurance of "positive product protection." VULCAN OFFERS COMPLETE PAINTING, LITHOGRAPHING, AND SILK SCREENING SERVICES TO DISTINCTIVELY DISPLAY YOUR TRADE MARK OR SALES MESSAGE.

Call or write today for samples and more information.

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See "Pails" and "Drums" in the Yellow Pages

Custom-made fragrances for soaps and household specialties



Give your product the odor appeal which assures customer acceptance at point of sale as well as at point of use. The skilled and experienced perfumers of Givaudan can create just such scents to meet the most exacting requirements of any type of soap or household product. To find the right fragrance for sales success, specify Givaudan.



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Esso Standard Oil Co., 15 W. 51st St., N. Y. 19
Gulf Refining Co., Pittsburgh
Hostawax Co., 350 5th Ave., N. Y. C.
International Wax Refin'g Corp., E. Hawthorne Ave., Valley Stream, N.Y.
Moore & Munger Co., 33 Rector St., N. Y. C.
Pennotex Oil Corp., Box 187, Sparta, N. J.
Pennsylvania Refining Co., Butler, Pa.
Petroleum Specialties, Inc., 205 E. 42nd St., N. Y. 17
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Frank B. Ross Co., 6-10 Ash St., Jersey City, N. J.
William H. Scheel, Inc., 38 Franklin St., Bklyn. 22
Shell Oil Co., 50 W. 50th St., N. Y. 20
Sinclair Petrochemicals, 630-5th Ave., N. Y.
Socony Mobil Oil Co., 150 E. 42nd St., N. Y. 17
Sonneborn Chem. & Refin'g Corp., 300 4th Ave., N. Y. 10
Standard Oil Co., (Calif.), 225 Bush St., San Francisco
Standard Oil Co., (Ohio), Midland Bldg., Cleveland
Sun Oil Co., 1608 Walnut St., Phila.
Warwick Wax Div., 2 W. 45 St., N. Y. 36

PARAFFIN OILS

American-British Chem. Supplies, 180 Madison Ave., N. Y.
American Mineral Spirits Co., Murray Hill, N. J.
Amoco Chems. Corp., 910 S. Michigan Ave., Chicago
Amsco Solvents & Chems. Co., 4619 Reading Rd., Cincinnati
Atlantic Refining Co., 260 S. Broad St., Philadelphia
Buffalo Sols. & Chems. Co., Box 73, Sta. B. Buffalo, 7
Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago
Continental Oil Co., 1270 Ave. of Americas, N. Y. 20
Dixie Sols. & Chems. Co., Dixie Highway, Louisville, Ky.
Eastern States Pet. & Chem. Corp., Houston 12, Tex.
Esso Standard Oil Co., 15 W. 51st St., N. Y. 19
Gulf Refining Co., Pittsburgh
Hoosier Sols. & Chems. Co., 1650 Luett Ave., Indianapolis, Ind.
International Wax Ref. Corp., E. Hawthorne Ave., Valley Stream, N. Y.
Missouri Sols. & Chems. Co., 419 De Soto Ave., St. Louis
Ohio Sols. & Chems. Co., 3470 W. 140th St., Cleveland
Pennsylvania Refining Co., Butler, Pa.
Petroleum Specialties, Inc., 205 E. 42nd St., N. Y. 17
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Sinclair Petrochemicals, 630-5th Ave., N. Y.
Skelly Oil Co., Skelly Bldg., Kansas City, Mo.
Socony Mobil Oil Co., 150 E. 42nd St., N. Y. 17
Sonneborn Chem. & Refin'g Corp., 300 4th Ave., N. Y.
Southern Sols. & Chems. Corp., 917 Jefferson Highway, New Orleans
Standard Oil Co., (Calif.) 225 Bush St., San Francisco
Standard Oil Co., (Ohio), Midland Bldg., Cincinnati
Sun Oil Co., 1608 Walnut St., Phila. 3
Texas Sols. & Chems. Co., 8501 Market St., Houston, Texas
Toledo Sols. & Chems. Co., 4051 South Ave., Toledo
Warwick Wax Div., 2 W. 45 St., N. Y. 36
Western Sols. & Chems. Co., 6472 Selkirk Ave., Detroit
Wisconsin Sols. & Chems. Co., 1719 S. 83rd St., Milwaukee 14
Wolverine Sols. & Chems. Co., 2940 Stafford Ave., S.W., Grand Rapids

PARAHYDROXYBENZOIC ACID (Preservative)

Heyden Newport Chemical Corp., 342 Madison Ave., N. Y. 17

PARIS GREEN

Dow Chemical Co., Midland, Mich.
General Chemical Div., 40 Rector St., N. Y.
Robeco Chemicals, Inc., 23 E. 26th St., N. Y.

PARATHION

American Cyanamid Co., 30 Rockefeller Plaza, N. Y. C.
American Potash & Chem. Corp., 3030 W. 6th St., Los Angeles
Chemagro Corp., 437 5th Ave., N. Y. 16
Diamond Alkali Co., Union Commerce Bldg., Cleveland
Monsanto Chemical Co., St. Louis 24, Mo.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Victor Chem. Wks., 155 N. Wacker Dr., Chicago

PASTES (see Adhesives)

PATCHOULI OIL (see Essential Oils)

1960 BLUE BOOK

PEANUT OIL

Amato Agency, Inc., 11 Broadway, N. Y. 4
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Geo. Degen & Co., 111 Broadway, N. Y. 6
Eastern Industries, Inc., Ridgefield, N. J.
Falk & Co., Pittsburgh 30
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.
Pacific Vegetable Oil Corp., 1145 S. 10th St., Richmond, Calif.
J. H. Redding, Inc., 17 Battery Place, N. Y.
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10
Sergeant Chem. Co., 7 Dey St., N. Y.
Southern Cotton Oil Co., Produce Exchange, N. Y.
Swift & Co., Hammond, Ind.
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PENNYROYAL OIL (see Essential Oils)

PENTACHLOROPHENOL

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Diamond Alkali Co., Union Commerce Bldg., Cleveland
Dow Chemical Co., Midland, Mich.
Frontier Chem. Co., Wichita, Kan.
Geigy Chemical Corp., Ardsley, N. Y.
Hercules Powder Co., Wilmington, Del.
Monsanto Chemical Co., St. Louis 24, Mo.
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Reichhold Chemicals, Inc., White Plains, N. Y.
Reilly Tar & Chemical Corp., Merchants Bank Bldg., Indianapolis, Ind.

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Fuld Bros., 702 S. Wolfe St., Baltimore
Hysan Prods. Co., 930 W. 38th Pl., Chicago
Keystone Scent Conditioner Corp., 315 N. 12th St., Phila.
Robinson Clay Prod. Co., 101 Park Ave., N. Y.
Scent Flo Dist. Co., 7227 Hamilton Ave., Pittsburgh 8
Star Porcelain Co., 33 Muirhead Ave., Trenton, N. J.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
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American Aromatics, Inc., 24 E. 21st St., N. Y. 10
American-British Chems. Supplies, 180 Madison Ave., N. Y. 16
Aromatic Products, Inc., 235 4th Ave., N. Y. 3
Berje Chem. Prod. Co., 359 W. Broadway, N. Y.
W. J. Bush & Co., 137 Boston Post Rd., Cos Cob, Conn.
Charabot & Co., 114 E. 25th St., N. Y.
Antoine Chiris Co., 220 E. 23rd St., N. Y.
Pierre Coutin Associates, 118 E. 28th St., N. Y.
Gerard J. Danco Intl. Corp., 5 E. 19th St., N. Y. C.
De Laire, Inc., 240 W. 30th St., N. Y.
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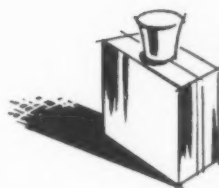
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Felton Chemical Co., 603 Johnson Ave., Brooklyn, N. Y.
Firmenich, Inc., 250 W. 18th St., N. Y.
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Fleuroma, Inc., 38 W. 21st St., N. Y. 10
Florasynth Laboratories, 900 Van Nest Ave., N. Y.
Fries & Fries, Inc., 110 E. 70th St., Cincinnati
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D. W. Hutchinson & Co., 700 S. Columbus Ave., Mt. Vernon, N. Y.
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Geo. Lueders & Co., 427 Washington St., N. Y.
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Neumann-Buslee & Wolfe, 5800 Northwest Highway, Chicago
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Noville Essential Oil Co., 1312 5th St., N. Bergen, N. J.
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P. Robertet, Inc., 221 4th Ave., N. Y. 3
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Roure-Dupont, Inc., 366 Madison Ave., N. Y.
Schimmel & Co., 601 W. 26th St., N. Y.
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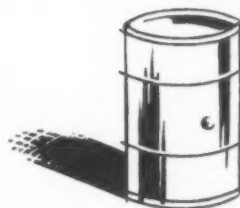


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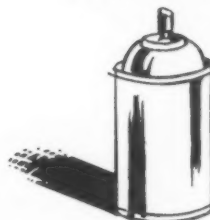


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Magie Bros. Oil Co., 9101 Fullerton Ave., Franklin Park, Ill.
Pennotex Oil Corp., Box 187, Sparta, N. J.
Pennsylvania Refining Co., Butler, Pa.
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10
Sinclair Petrochemicals, 630 Fifth Ave., N. Y.
Socony Mobil Oil Co., 150 E. 42nd St., N. Y. 17
Sonneborn Chem. & Refin'g Corp., 300 4th Ave., N. Y.
Standard Oil Co., (Calif.), 225 Bush St., San Francisco
Standard Oil Co., (N. J.), 26 Broadway, N. Y.
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Oronite Chem. Co., 200 Bush St., San Francisco
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Pennsylvania Refining Co., Butler, Pa.
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Sinclair Petrochemicals, 600 5th Ave., N. Y. 20
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago
Sonneborn Chem. & Refin'g Corp., 300 4th Ave., N. Y.
Stepan Chem. Co., 427 W. Randolph St., Chicago
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Ultra Chem. Works, 2 Wood St., Paterson, N. J.

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Monsanto Chemical Co., St. Louis 24, Mo.
Plastics & Coal Chem. Div., 40 Rector St., N. Y. 6
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Reilly Tar & Chem. Corp., Merchants Bank Bldg., Indianapolis
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Monsanto Chemical Co., St. Louis 24, Mo.
Olin Mathieson Chem. Corp., Baltimore 3
Phosphorus Div., Hooker Chem. Corp., 666 5 Ave., N. Y.
Riches-Nelson, Inc., 342 Madison Ave., N. Y.
Rumford Chem. Wks., Rumford, R. I.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
U. S. Industrial Chems. Co., 99 Park Ave., N. Y. 16
Victor Chem. Wks., 155 N. Wacker Dr., Chicago 6
Virginia-Carolina Chem. Corp., Richmond 8, Va.
Westvaco Mineral Prods. Div., 161 E. 42nd St., N. Y.

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Central Solvents & Chemicals Co., 2540 W. Flournoy St., Chicago
Continental Turp. & Rosin Corp., Laurel, Miss.
Dixie Pine Prods. Co., Hattiesburg, Miss.
Dixie Solvents & Chems. Co., Dixie Highway, Louisville
Glidden Co., Jacksonville, Fla.
Gulf Naval Stores Supply Co., Whitney Bldg., New Orleans
Hercules Powder Co., Wilmington, Del.
Hoosier Solvents & Chems. Corp., 1650 Luett St., Indianapolis
Industrial Chem. Sales Div., 230 Park Ave., N. Y.
Missouri Solvents & Chems. Co., 419 DeSoto, St. Louis
Newport Industries Co., 342 Madison Ave., N. Y. 17

Ohio Solvents & Chems. Co., 3470 W. 140th St., Cleveland
Phoenix Naval Stores Co., Gulfport, Miss.
Southern Sols. & Chems. Corp., 917 Jefferson Highway, New Orleans
Texas Solvents & Chem. Co., 8501 Market St., Houston
Toledo Sols. & Chems. Co., 4051 South Ave., Toledo
Western Sols. & Chems. Co., 6472 Selkirk Ave., Detroit
Wisconsin Solvents & Chem. Corp., 1719 S. 83rd St., Milwaukee
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Wolverine Solv. & Chems. Co., 2940 Stafford Ave., S.W., Grand Rapids

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PINE SCRUB SOAPS (see Potash Soaps)

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Hartford Tube Products Co., Hartford, Conn.
Houchin Division, 300 Straight St., Paterson, N. J.
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Philadelphia Pipe Bending Co., 4100 N. 5th St., Phila.
Pittsburgh Pipe Coil & Bending Co., Etna, Pa.
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Monsanto Chemical Co., St. Louis 24, Mo.
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Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
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Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
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Maloney Chem. Co., Green Bay, Wis.
McAler Mfg. Corp., 101 S. Waterman Ave., Detroit 17
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Perrow Chem. Co., Hurt, Va.
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Surety Laboratories, 3946 Olive St., St. Louis 8
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POLYETHYLENE

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enable you to formulate
broader range of
liquid and paste polishes

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Epolene HDE	1500	455	0.956	1
Epolene LVE	1500	400	0.939	5
Epolene N	2500	2500	0.928	1
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Epolene C	7000	16,000	0.907	7

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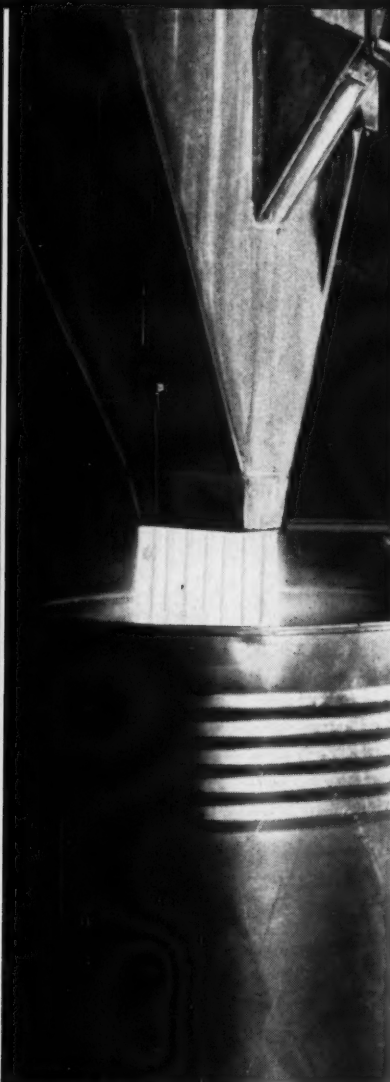
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11 Ways to buy Hooker Caustic Soda

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Rayon grade liquid 50%	Fine flake
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Regular flake	



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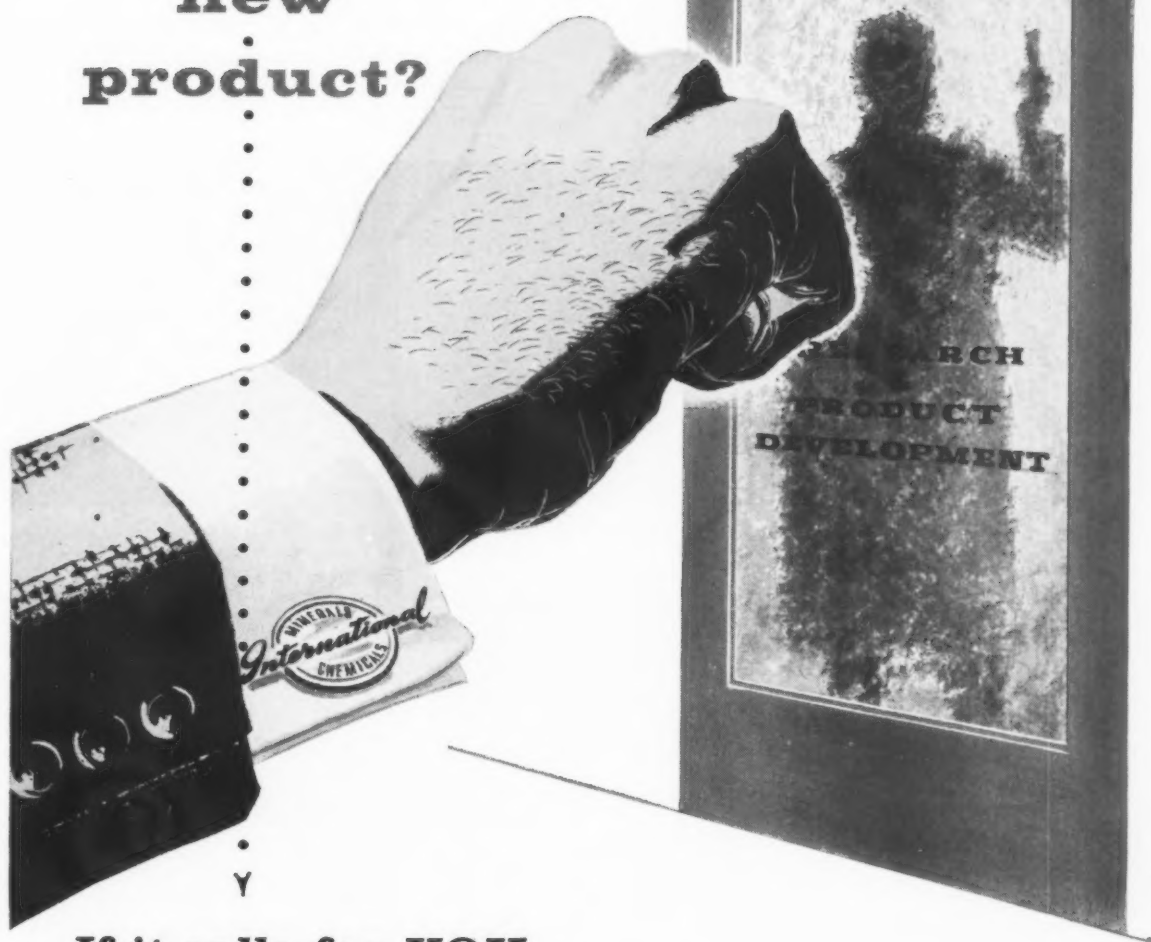
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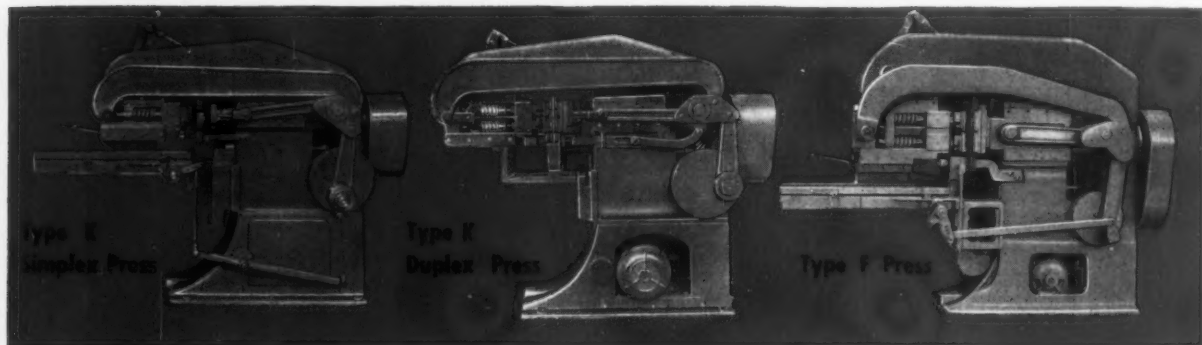
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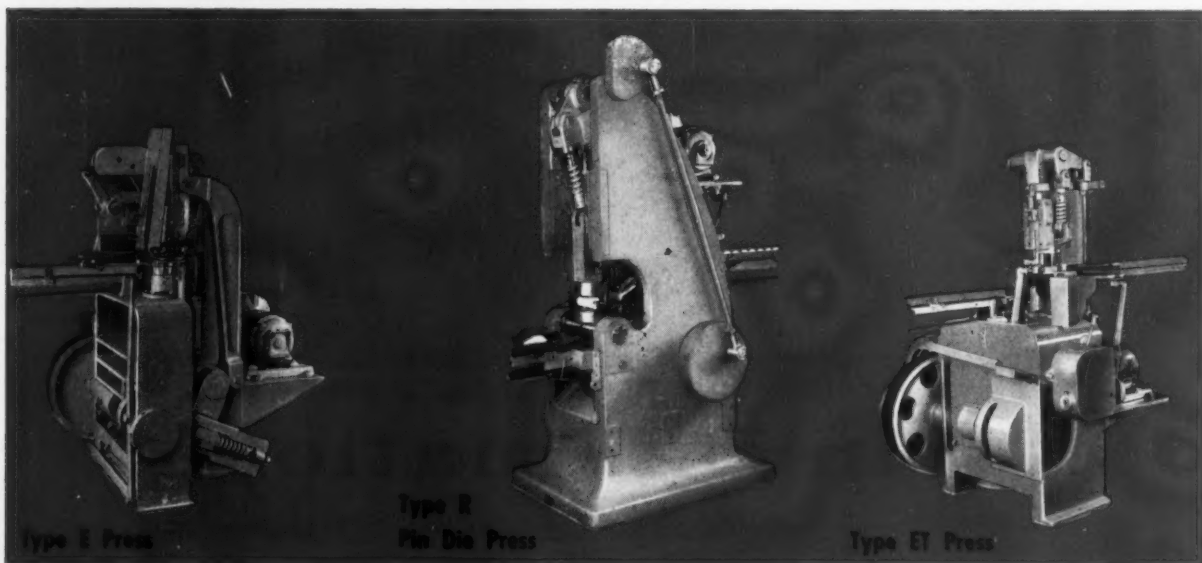
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First Machinery Corp., 209 10 St., Bklyn. (Used)
Houchin Division, 300 Straight St., Paterson, N. J.
G. Mazzoni, Busto Arsizio, Italy
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)
Henry Simon Ltd., Cheadle Heath, Stockport, England
Vickers Ltd., Westminster, London, England

PRIVATE BRAND FORMULATIONS (see listings under individual headings)

PRIVATE LABEL PACKAGING, FILLING (see Contract Packaging; Packaging for the trade)

PROPELLANTS (see Aerosol Propellants)

PROPORTIONERS, SOAP AND DETERGENT (see Soap Solutionizing Devices)

PROTECTIVE HAND CREAMS (see Hand Creams, Protective)

PROPYL ALCOHOL (see Alcohol, Isopropyl)

PROPYLENE GLYCOL

Amsco Sols. & Chems. Co., 4619 Reading Rd., Cincinnati
Buffalo Solvs. & Chems. Co., Box 73, Sta. B, Buffalo, N. Y.
Celanese Corp. of America, 180 Madison Ave., N. Y.
Central Sols. & Chems. Co., 2540 W. Flournoy St., Chicago
Dixie Sols. & Chems. Co., Dixie Highway, Louisville
Dow Chemical Co., Midland, Mich.
Glyco Chemicals Division, 417 5 Ave., N. Y.
Hoosier Sols. & Chems. Co., 1650 Luett Ave., Indianapolis, Ind.
Jefferson Chem. Co., 1121 Walker Ave., Houston, Tex.
Missouri Sols. & Chems. Co., 419 De Soto Ave., St. Louis
Ohio Sols. & Chems. Co., 3470 W. 140th St., Cleveland
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10
Southern Sols. & Chems. Corp., 917 Jefferson Highway, New Orleans
Texas Sols. & Chems. Co., Market St., Houston
Toledo Sols. & Chems. Co., 4051 South Ave., Toledo, O.
Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17
Western Sols. & Chems. Co., 6472 Selkirk Ave., Detroit
Wisconsin Sols. & Chems. Co., 1719 S. St., Milwaukee
Wolverine Sols. & Chems. Co., 2940 Stafford Ave., SW, Grand Rapids

PUMICE

California Industrial Minerals Co., Friant, Calif.
Chas. B. Crystal Co., 53 Park Pl., N. Y.
LaRue-Axtell Pumice Co., Callaway, Nebr.
Pacific Coast Pumice Co., Bishop, Calif.
James J. Rhodes & Co., 157 W. Hubbard St., Chicago
Wm. R. Rogers, 80 Park St., Beverly, Mass.
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10
Tamms Industries, Inc., 228 N. 6th St., Phila.
Charles A. Wagner Co., 4455 N. 6th St., Phila.
Whittaker, Clark & Daniels, 100 Church St., N. Y.

PUMPS (Barrel and Drum Dispensing)

Blackmer Pump Co., Century Ave., SW, Grand Rapids, Mich.
Charles Prods. Co., Gyman-Petro Bldg., Hutchinson, Kansas
Eco Engineering Co., 12 New York Ave., Newark, N. J.
Force-Flo, Inc., 1527 Coit St., Cleveland, O.
Granberg Corp., 1308 68 St., Oakland, Calif.
Gray Co., 60-11th Ave., NE, Minneapolis
Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.
Hub States Chems. & Equipment, 1255 N. Windsor St., Indianapolis
Manton-Gaulin Mfg. Co., Everett, Mass.
Multi-Meter Corp., 1041 Custer Dr., Toledo, O.
Terra Div. Consolidated Siphon Supply Co., 22 Wooster St., N. Y.

PUMPS (General Purpose)

Aldrich Pump Co., Pine St., Allentown, Pa.
Alsop Engineering Corp., Milldale, Conn.
Aurora Pump Division, Aurora, Ill.
Carver Pump Co., Muscatine, Iowa
Dorr-Oliver, Inc., Stamford, Conn.
Easy Industries, 210 N. Racine Ave., Chicago
Granberg Corp., 1308 68 St., Oakland, Calif.
Gray Co., 60 11th Ave., Minneapolis
Kartridg Pak Co., 9151 W. Fullerton Ave., Franklin Park, Ill.
Manton-Gaulin Mfg. Co., Everett, Mass.
Goulds Pumps, Inc., Seneca Falls, N. Y.
Proportioners, Inc., Harris Ave., Providence, R. I.
Robbins & Myers, Inc., Lagonda Ave., Springfield, O.
F. J. Stokes Corp., 5500 Tabor Rd., Phila.
Terra Div. Consolidated Siphon Supply Co., 22 Wooster St., N. Y.
Viking Pump Co., Cedar Falls, Iowa
Warren Pumps, Inc., Warren, Mass.
Worthington Corp., Harrison, N. J.

PYRETHRUM EXTRACT

Fairfield Chem. Div., 441 Lexington Ave., N. Y.
McLaughlin, Gormley, King Co., 1715 Fifth St., S.E., Minneapolis
S. B. Penick & Co., 100 Church St., N. Y.
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1

PYRETHRUM FLOWERS AND POWDER

Biddle Sawyer Corp., 20 Vesey St., N. Y. 7
California Spray-Chemical Corp., Richmond, Calif.
Fairfield Chem. Div., 441 Lexington Ave., N. Y.
McLaughlin, Gormley, King Co., 1715 Fifth St., S.E., Minneapolis
S. B. Penick & Co., 100 Church St., N. Y.
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1

PYRETHRUM POWDER (Insect Powder)

Fairfield Chem. Div., 441 Lexington Ave., N. Y.
McLaughlin, Gormley, King Co., 1715 Fifth St., S.E., Minneapolis
S. B. Penick & Co., 100 Church St., N. Y.
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1

PYROPHYLLITE

Chas. B. Chrystal Co., 53 Park Pl., N. Y.
Glendon Pyrophyllite Co., Greensboro, N. C.
Minerals & Chems. Corp. of America, Menlo Park, N. J.
Tamms Industries, Inc., 229 N. La Salle St., Chicago
R. T. Vanderbilt Co., 230 Park Ave., N. Y.
Welch, Holme & Clark Co., 1 Hudson St., N. Y.
Whittaker, Clark & Daniels, 100 Church St., N. Y.

QUATERNARY AMMONIUM COMPOUNDS

American Alcolac Corp., 3440 Fairfield Rd., Baltimore
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Antara Chemicals, 435 Hudson St., N. Y. 14
Archer-Daniels-Midland Co., Minneapolis, Minn.
Armour Industrial Chemical Co., 110 N. Wacker Dr., Chicago
Atlas Powder Co., Wilmington 99, Dela.
J. T. Baker Chemical Co., Phillipsburg, N. J.
Chemo Puro Mfg. Co., 60 E. 42 St., N. Y. C.
Commercial Solvents Corp., 260 Madison Ave., N. Y. 17
E. I. du Pont de Nemours & Co., Wilmington, Del.
Fine Organics, 205 Main St., Lodi, N. J.
Fleetwood Prods. Co., 509 5th Ave., N. Y. 17
Geigy Industrial Chem., Ardsley, N. Y.
General Mills, Kankakee, Ill.
Hooker Chemical Corp., Union St., Niagara Falls, N. Y.
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Merck & Co., Rahway, N. J.
M. Michel & Co., 90 Broad St., N. Y. 4
Miranol Chem. Co., 277 Coit St., Irvington, N. J.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2, N. J.
Oronite Chem. Co., 200 Bush St., San Francisco
Process Chems. Co., 8733 S. Dice Rd., Los Nietos, Calif.
Rayette, Inc., 261 E. 5th St., St. Paul, Minn.
Refined Products Co., 624 Schuyler Ave., Lyndhurst St., N. J.
Rohm & Haas, 222 W. Washington Sq., Phila.

QUATERNARY AMMONIUM COMPOUNDS (Contd.)

Sole Chem. Corp., 7740 S. Chicago Ave., Chicago
Sterwin Chemicals, Inc., 1450 Broadway, N. Y. 18
Witco Chem. Co., 122 E. 42nd St., N. Y. 17
Wyandotte Chemicals Corp., Wyandotte, Mich.

QUATERNARY AMMONIUM DISINFECTANTS

ABC Compounding Co., Oakcliff & Harwell Rds., Atlanta, Ga.
Airkem, Inc., 241 E. 44th St., N. Y. 17
Antara Chemicals, 435 Hudson St., N. Y. 14
Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
Atlas Powder, Wilmington, Del.
B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Baird & McGuire, Inc., Holbrook, Mass.
Barton Chemical Co., 1230 W. 46th St., Chicago 9
Bixon Chem. Corp., 1163 Southern Blvd., N. Y. 59
Britex Corp., 17 Lewis Wharf, Boston
Buckingham Wax Co., Van Dam St., L. I. C., N. Y.
Chem. Serv. of Balto., Howard & West Sts., Balto.
Chemo Puro Mfg. Corp., 60 E. 42 St., N. Y.
Chicago San. Prods. Co., 3100 S. Throop St., Chicago 8
Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3
Davies-Young Soap Co., Dayton 1, O.
Fine Organics, Inc., 205 Main St., Lodi, N. J.
Frontier Chem. Prods., 119 E. Soper St., St. Louis 11
Fuld Bros., 702 S. Wolfe St., Baltimore
Gallowhur Chem. Corp., Ossining, N. Y.
Geigy Industrial Chemicals, Ardsley, N. Y.
James Good, Inc., 2107 Susquehanna Ave., Phila. 25
Harley Soap Co., Pearce & Orthodox Sts., Phila. 37
R. M. Hollingshead Corp., Camden, N. J.
Hysan Products Co., 900 W. 38th Place, Chicago
Industrial Materials Co., 1017 McCall St., Houston
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Klix Chem. Co., 551 Railroad Ave., South San Francisco, Calif.
Lorenz Chem. Co., 135 N. 32nd Ave., Omaha
M. Michel & Co., 90 Broad St., N. Y. 4
Midland Laboratories, Dubuque, Iowa
Nalco Chem. Co., 6216 W. 66 Pl., Chicago
National Chem. Labs., 825 Lombard St., Phila.
National Milling & Chem. Co., 4601 Flat Rock Rd., Phila. 27
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City, N. J.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Puro Co., 2901 Locust St., St. Louis 3
Rayette, Inc., 261 E. 5th St., St. Paul, Minn.
Reily Chemical Co., Industrial Prods. Div., P.O. Box 98, New Orleans, La.
Rochester Sanitary Prods. Co., 846 Exchange St., Rochester, N. Y.
Rohm & Haas Co., 222 W. Washington Sq., Philadelphia
Theo. Ross Assts., 835 W. Olympic Blvd., Los Angeles
I. Schneid, Inc., 765 Trabert Ave., N. Y. Atlanta, Ga.
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago 19
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Sterwin Chemicals, Inc., 1450 Broadway, N. Y.
Surety Laboratories, 3946 Olive St., St. Louis 8
Tex-ite Prods. Corp., 859 E. 43rd St., Brooklyn 10
Thompson-Hayward Chem. Co., 2915 SW Blvd., Kansas City 8
Trio Chemical Wks., 341 Scholes St., Bklyn. 6
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis
Veneer-O-Wax Corp., 2010 E. Fletcher St., Phila.
Virginia-Carolina Chem., Richmond 8, Va.
Wyandotte Chemicals Corp., Wyandotte, Mich.

RAT EXTERMINATING PRODUCTS

Barnett Chem. Prods. Co., 326 Lafayette Bldg., Phila. 6
California Spray-Chemical Corp., Richmond, Calif.
Chase Products Co., 20 St. & Gardner Rd., Broadview, Ill.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Chem. Service of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Exterminating Materials Co., 555 W. 22nd St., N. Y.
Fuld Bros., 702 S. Wolfe St., Baltimore
Geigy Agri. Chems., Ardsley, N. Y.
Hub States Chems. & Equipment, 1255 N. Windsor St., Indianapolis
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
O. E. Linck Co., 51 James St., Montclair, N. J.
McLaughlin, Gormley, King Co., 1715 S.E. 5th St., Minneapolis
Morton Chem. Co., 110 N. Wacker Dr., Chicago 6
S. B. Penick & Co., 100 Church St., N. Y. C.
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1
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 CHICAGO — The Edward J. Lewis Co., 9 S. Clinton St.
 DETROIT — Skelton Chemical Co., 8880 W. McNichols Rd.
 NEW YORK — William H. Scheel, Inc., 38 Franklin St., Brooklyn
 PHILADELPHIA — W. R. E. Andrews Sales, Inc., 1505 Race St.
 ST. LOUIS — Clifford L. Iorns Co., 216 S. Seventh St.
 LOS ANGELES — Exeritt & Ray, 1556 Industrial St.

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 MONTREAL — Allied Basic Chemicals, Co., 1100 Craig St.
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RAT EXTERMINATING PRODUCTS (Contd.)

Puro Co., 2801 Locust St., St. Louis 3
Residex Corp., 1500 W. Elizabeth Ave., Linden, N. J.
Sennewald Drug Co., 2723 Chouteau Ave., St. Louis
Thompson-Hayward Chem. Co., 2915 SW Blvd., Kansas City 8
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
United-Heckathorn, 600 S. 4 St., Richmond, Calif.
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12
York Chem. Co., 23 Dean St., Bklyn. 1

RED OIL (Oleic Acid)

Acme Hardesty Co., 60 E. 42nd St., N. Y.
Armour Industrial Chemical Co., 110 N. Wacker Dr., Chicago
Capital City Prods. Co., 525 W. 1st St., Columbus 16, O.
Darling & Co., 4201 S. Ashland Ave., Chicago
Eastern Industries, Ridgely, N. J.
Emery Industries, Inc., 4300 Carew Tower, Cincinnati
Fine Organics, Inc., 205 Main St., Lodi, N. J.
A. Gross & Co., 295 Madison Ave., N. Y.
Harchem Div., 25 Main St., Belleville 9, N. J.
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
M. Michel & Co., 90 Broad St., N. Y. 4
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10
Swift & Co., Hammond, Ind.
Jos. Turner & Co., Ridgefield, N. J.
Vegetable Oil Prods., 5568 E. 61 St., Los Angeles
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Wilson-Martin Div., Snyder & Swanson, Phila.
Woburn Chem. Corp., 1200 Harrison Ave., Kearny, N. J.

REPELLENTS (see Dog Repellents; Insect Repellents)

RESINS, NATURAL (see Gums)

RESINS, SYNTHETIC, adhesive

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Archer-Daniels-Midland Co., Minneapolis, Minn.
Catalin Corp. of America, 1 Park Ave., N. Y.

General Aniline & Film Corp., 435 Hudson St., N. Y.
General Mills, Inc., Kankakee, Ill.
National Starch & Chem. Corp., 750 3 Ave., N. Y.
Reichhold Chemicals, Inc., White Plains, N. Y.
Schenectady Varnish Co., Schenectady 1, N. Y.
Synvar Corp., Wilmington, Dela.

RESINS, SYNTHETIC, can coating

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Archer-Daniels-Midland Co., Minneapolis, Minn.
Reichhold Chemicals, Inc., White Plains, N. Y.
Schenectady Varnish Co., Schenectady 1, N. Y.
Shell Chemical Corp., 50 W. 50 St., N. Y.

RESINS, SYNTHETIC, paint, varnish and enamel

Alkydol Laboratories, Inc., 3242 S. 50 Ave., Cicero, Ill.
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Archer-Daniels-Midland Co., Minneapolis, Minn.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Durez Plastics Div., N. Tonawanda, N. Y.
General Mills, Inc., Kankakee, Ill.
Glidden Co., Jacksonville 1, Fla.
Hercules Powder Co., Wilmington, Dela.
Monsanto Chemical Co., St. Louis
Newport Industries Co., 342 Madison Ave., N. Y.
Pennsylvania Industrial Chemical Corp., Clairton, Pa.
Plastics & Coal Chem. Div., 40 Rector St., N. Y.
Reichhold Chemicals, Inc., White Plains, N. Y.
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Schenectady Varnish Co., Schenectady 1, N. Y.
Shell Chemical Corp., 50 W. 50 St., N. Y. 20
Synvar Corp., Wilmington, Dela.
Velsicol Corp., 330 E. Grand Ave., Chicago
T. F. Washburn Co., 2244 Elston Ave., Chicago

RESINS, SYNTHETIC, emulsion polish

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Dow Corning Corp., Midland, Mich.
Eastman Chemical Prods., Kingsport, Tenn.



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In France: Schenectady de France
11, Avenue Kleber
Paris 16e

RESINS, SYNTHETIC, EMULSION POLISH (Contd.)

B. F. Goodrich Chem. Co., 3135 Euclid Ave., Cleveland
Hercules Powder Co., Wilmington, Del.
Morton Chem. Co., 110 N. Wacker Dr., Chicago
National Starch & Chem. Corp., 750 3 Ave., N. Y.
Polyvinyl Chemicals, 26 Howley St., Peabody, Mass.
Reichhold Chemicals, Inc., White Plains, N. Y.
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Semet-Solvay Petrochemical Div., 40 Rector St., N. Y.
Schenectady Varnish Co., Schenectady 1, N. Y.
Shanco Plastics & Chemicals, Inc., 2 Mile Creek Rd., Tonawanda, N. Y.
Silicones Div., Union Carbide Corp., 30 E. 42 St., N. Y.
UBS Chem. Corp., 491 Main St., Cambridge, Mass.
Warwick Wax Div., 2 W. 45 St., N. Y. 36
T. F. Washburn Co., 2244 Elston Ave., Chicago

RHODINOL (see Aromatic Chemicals)

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Almo Laboratories Co., 424 Madison Ave., N. Y. C.

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Hub States Chem. & Equip. Co., 1255 N. Findsor St., Indianapolis
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Sennewald Drug Co., 2733 Chouteau Ave., St. Louis
York Chemical Co., 23 Dean St., Bklyn.

ROACH POWDERS (see Insecticides, Powder)

RODENTICIDES (see Rat Exterminating Products)

ROOM DEODORANTS (see lists under Aerosol Room Deodorants, Glyco Sprays, Theatre Sprays.)

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American Turp. Farmers Assn., Valdosta, Ga.
Amsco Solvents & Chems. Co., 4619 Reading Rd., Cincinnati
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Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago
Dixie Pine Prods. Co., Hattiesburg, Miss. (wood)
Dixie Solvents & Chems. Co., Dixie Highway, Louisville
General Mills, Kankakee, Ill.
Georgia Rosin Prods. Co., Brunswick, Ga.
Glidden Co., Jacksonville, Fla.
Hercules Powder Co., Wilmington, Del.
Industrial Chem. Sales Div., 230 Park Ave., N. Y.
Hoosier Solvents & Chemicals Corp., 1650 Luett St., Indianapolis
Missouri Solvents & Chems. Co., 419 DeSoto, St. Louis
Newport Industries Co., 342 Madison Ave., N. Y. 17
Ohio Sols. & Chems. Co., 3470 W. 140th St., Cleveland
Phoenix Naval Stores Co., Gulfport, Miss. (wood)
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10
Southern Sols. & Chems. Corp., 917 Jefferson Highway, New Orleans
Toledo Sols. & Chems. Co., 4051 South Ave., Toledo
Texas Solvents & Chem. Co., 8501 Market St., Houston
Union Bag-Camp Paper Corp., 233 Broadway, N. Y.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Western Sols. & Chems. Co., 6472 Selkirk Ave., Detroit
Wisconsin Solvents & Chems. Corp., 1719 S. 83rd St., Milwaukee
Wolverine Solv. & Chems. Co., 2940 Stafford Ave., SW, Grand Rapids

ROSIN SOAPS (see Laundry Soap)

ROTENONE and ROTENONE FORMULATIONS

Baird & McGuire, Inc., Holbrook, Mass.
California Spray-Chemical Corp., Richmond, Calif.
Chem. Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Chipman Chem. Co., Bound Brook, N. J.
Dodwell & Co., 120 Wall St., N. Y. 5
Douglas Chem. Co., 620 E. 16th St., North Kansas City, Mo.
Fairfield Chem. Div., 441 Lexington Ave., N. Y.
Geigy Agricultural Chemicals, Ardsley, N. Y.
General Chem. Div., 40 Rector St., N. Y. 6
Miller Prods. Co., 1932 S. W. Water Ave., Portland, Ore.
S. B. Penick & Co., 100 Church St., N. Y.

Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1
Private Brands, Inc., 300 S. Market St., Kansas City, Kan.
Quinn Drug & Chem. Co., Greenwood, Miss.
York Chem. Co., 23 Dean St., Bklyn. 1

RUG and UPHOLSTERY CLEANERS

ABC Compounding Co., Oakcliff & Harwell Rds., Atlanta, Ga.
Antara Chemicals, 435 Hudson St., N. Y. 14
Armour & Co., 1355 W. 31st St., Chicago 9
B & W Chem. Co., 25920 Bella Porte Ave., Harbor City, Calif.
Britex Corp., 17 Lewis Wharf, Boston
Buckingham Wax Corp., Van Dam St., & Borden Ave., L. I. City
Candy & Co., 2515 W. 35th St., Chicago
Chem. Service of Balto. Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
Clarkson Laboratories, 920 N. Darien St., Phila.
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
Davies-Young Soap Co., Dayton, O.
Duo-Dellay Prods., 4201 Pulaski Hwy., Baltimore, Md.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Emulso Corp., 301 Ellicott St., Buffalo, N. Y.
Essential Chem. Co., 5906 N. Port Washington Rd., Milwaukee
Fine Organics, Inc., 205 Main St., Lodi, N. J.
Franklin Research, 5134 Lancaster Ave., Phila.
Frontier Chem. Prods., Inc., 119 E. Soper St., St. Louis
Fuld Bros., 702 S. Wolfe St., Baltimore
Golden Star Polish Mfg. Co., 400 E. 10th St., N. Kansas City, Mo.
James Good, Inc., 2107 Susquehanna Ave., Phila.
Haag Laboratories, 14000 S. Seeley Ave., Blue Island, Ill.
Harley Soap Co., Pierce & Orthodox Sts., Phila. 37
Hysan Prods. Co., 930 W. 38th Pl., Chicago
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Jones-Hamilton Co., 455 Wells Ave., Newark, Calif.
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Klix Chem. Co., 551 Railroad Ave., South San Francisco, Calif.
Krystall Chem. Co., 1301 W. Belden Ave., Chicago
McAleer Mfg. Corp., 101 S. Waterman Ave., Detroit 17
M. Michel & Co., 90 Broad St., N. Y. 4
National Aniline Div., 40 Rector St., N. Y.
National Chem. Labs., 825 Lombard St., Phila.
New Jersey Chem. Co., 56 Park Ave., Lyndhurst, N. J.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2
Oronite Chem. Co., 200 Bush St., San Francisco
Pace, Inc., MacArthur Rd., Wilmington, Dela.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Peterson Filling & Packaging Co., Hegeler Lane, Danville, Ill.
Pennsalt Chems. Corp., 3 Penn Center, Phila.
Philadelphia Quartz Co., 1056 Public Ledger Bldg., Phila. 6
Puro Co., 2801 Locust St., St. Louis 3
Sanders Chem. Co., 2205 N. American St., Phila. 33
I. Schneid, 765 Trabert Ave., N. E. Atlanta, Ga.
Simoniz Co., 2100 Indiana Ave., Chicago 16
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Standard Soap Co., 205 S. 2nd St., Camden, N. J.
Swift & Co., Chicago
Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
Trio Chem. Wks., 341 Scholes St., Bklyn.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Uncle Sam Chem. Co., 573 W. 131st St., N. Y. C.
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis
Warsaw Chem. Co., Warsaw, Ind.
Wyandotte Chemicals Corp., Wyandotte, Mich.

RUST REMOVERS AND PROOFERS

ABC Compounding Co., Oakcliff & Harwell Rds., Atlanta, Ga.
Clarkson Laboratories, 920 N. Darien St., Phila. 23
Esso Standard Oil Co., 15 W. 51st St., N. Y. 19
Frontier Chem. Prods., 119 E. Soper St., St. Louis
Fuld Bros., 702 S. Wolfe St., Baltimore
Gard Industries, 1739 Harding Rd., Northfield, Ill.
Geigy Industrial Chemicals, Ardsley, N. Y.
Hysan Products Co., 930 W. 38th Place, Chicago
Jones-Hamilton Co., 455 Wells Ave., Newark, Calif.
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis, Mo.
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Peterson Filling & Packaging Co., Hegeler Lane, Danville, Ill.
Philadelphia Quartz Co., Public Ledger Bldg., Phila.
Simoniz Co., 2100 Indiana Ave., Chicago 16
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago
Solvay Process Div., 61 Broadway, N. Y.
Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
Warsaw Chem. Co., Warsaw, Ind.
Wilco Co., 4425 Bandini Blvd., Los Angeles 23

RYANIA

S. B. Penick & Co., 100 Church St., N. Y. 8

SABADILLA

S. B. Penick & Co., 100 Church St., N. Y. 8
Prentiss Drug & Chem. Co., 101 W. 31 St., N. Y.

SADDLE SOAP

Chem. Service of Balto., Howard & West Sts., Balto.
Davies-Young Soap Co., Dayton, O.
James Good, Inc., 2107 Susquehanna Ave., Phila.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia
Hewitt Soap Co., Dayton, O.
R. M. Hollingshead Corp., Camden, N. J.
Hysan Products Co., 930 W. 38th Place, Chicago
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
John T. Stanley Co., 642 W. 30th St., N. Y.
Roy Wilson Mfg. Co., 2541 Archer Ave., Chicago 8
Windsor Wax Co., Inc., 611 Newark St., Hoboken, N. J.

SAL SODA

Church & Dwight Co., 70 Pine St., N. Y. 5
Columbia-Southern Chem. Corp., Pittsburgh
Diamond Alkali Co., Chamber of Commerce Bldg., Cleveland
Solvay Process Div., 61 Broadway, N. Y.

SALT (Common Salt)

Columbia-Southern Chem. Corp., Pittsburgh
Dow Chemical Co., Midland, Mich.
International Salt Co., Box 511, Scranton, Pa.
Frontier Chem. Co., Wichita, Kan.
LeRoy Salt Co., LeRoy, N. Y.
Michigan Chem. Corp., St. Louis, Mich.
Pomeroy Salt Co., Pomeroy, Ohio
Solvay Process Div., 61 Broadway, N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

SANITIZERS

(see also Detergents, Synthetic, Cationic)

ABC Compounding Co., Oakcliff & Harwell Rds., Atlanta, Ga.
Antara Chemicals, 435 Hudson St., N. Y. 14
Armour Industrial Chemical Co., 110 N. Wacker Dr., Chicago
Atlas Powder Co., Wilmington, Del.
B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Baird & McGuire, Inc., Holbrook, Mass.
Barton Chem. Co., 1230 W. 46 St., Chicago
Bex Industries, Inc., 210 5 Ave., N. Y.
Bixon Chem. Corp., 1163 Southern Blvd., N. Y. 59
Britex Corp., 17 Lewis Wharf, Boston 10
Chem. Service of Balto., Howard & West Sts., Balto.
Chemo Puro Mfg. Co., 60 E. 42 St., N. Y. C.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3
Davies-Young Soap Co., Dayton 1, O.
Fine Organics, Inc., 205 Main St., Lodi, N. J.
Fuld Bros., 702 S. Wolfe St., Baltimore
James Good, Inc., 2107 Susquehanna Ave., Phila. 25
Harley Soap Co., Pearce & Orthodox Sts., Phila. 37
R. M. Hollingshead Corp., Camden, N. J.
Hysan Products Co., 930 W. 38th Place, Chicago
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
National Chem. Labs., 825 Lombard St., Phila.
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City 2, N. J.
Pace, Inc., MacArthur Rd., Wilmington, Dela.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Pennsalt Chems. Corp., 3 Penn Center, Phila. 2
Puro Co., 2801 Locust St., St. Louis 3
Reily Chemical Co., P. O. Box 98, New Orleans, La.
Rochester Sanitary Prods. Co., 846 Exchange St., Rochester, N. Y.
Rohm & Haas Co., 222 W. Washington Sq., Philadelphia
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago
Sterwin Chemicals, Inc., 1540 Broadway, N. Y.
Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
Thompson-Hayward Chem. Co., 2915 SW Blvd., Kansas City 8
Trio Chemical Wks., 341 Scholes St., Bklyn. 6
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12
R. T. Vanderbilt Co., 230 Park Ave., N. Y. 17

James Varley & Sons, 1200 Switzer Ave., St. Louis
Witco Chem. Co., 122 E. 42nd St., N. Y.
Westvaco Chem. Div., 161 E. 42nd St., N. Y.
Wyandotte Chemicals Corp., Wyandotte, Mich.

SCALES (see Weighing Equipment)

SCOURING POWDERS

ABC Compounding Co., Oakcliff & Harwell Rds., Atlanta, Ga.
B. T. Babbitt, Inc., 625 Madison Ave., N. Y.
Baird & McGuire, Inc., Holbrook, Mass.
Britex Corp., 17-18 Lewis Wharf, Boston 10
Capitol Soap Corp., 310 Colfax Ave., Clifton, N. J.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Fitzpatrick Bros., 1300 W. 32nd St., Chicago 8
Hewitt Soap Co., Dayton, O.
Hysan Products Co., 930 W. 38th Place, Chicago
"J" Chemical Works, 602 W. 37th St., N. Y. 18
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Los Angeles Soap Co., 617 E. First St., Los Angeles
National Milling & Chem. Co., 4601 Flat Rock Rd., Phila.
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis, Mo.
Pal Products Mfg. Corp., 276 Warren St., Jersey City, N. J.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Procter & Gamble Dist. Co., Cincinnati
Purex Corp., 9300 Ravo Ave., South Gate, Calif.
Puro Co., 2801 Locust St., St. Louis 3
S. & S. Soap Co., 815 E. 135 St., N. Y. 54
Sanitary Soap Co., 194 Railroad Ave., Paterson, N. J.
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Standard Soap Co., 205 S. 2nd St., Camden, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
Virginia-Carolina Chem. Corp., Richmond 8, Va.
Wyandotte Chemicals Corp., Wyandotte, Mich.

SCOURING SOAPS (Bars)

Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
James Good, Inc., 2107 E. Susquehanna Ave., Phila.
Hewitt Soap Co., 333 Linden Ave., Dayton, O.
Hunnewell Soap Co., 114 W. 2nd St., Cincinnati
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
National Soap Co., P. O. Box 1631, Tacoma, Wash.
Procter & Gamble Co., Cincinnati, O.
Standard Soap Co., 205 S. 2nd St., Camden, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Warren Chem. Mfg. Inc., Norwood, Mass.

SCREENS (see Sifting and Screening equipment)

SCRUBBING SOAPS, (see Cleaners, Potash Soaps)

SEALERS, FLOOR

Buckingham Wax Co., 51-03 Van Dam St., Long Island City, N. Y.
Chem. Service of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 Throop St., Chicago
Davies-Young Soap Co., Dayton, O.
Du-Ev Products Co., 630 Driggs Ave., Brooklyn, N. Y.
Federal Varnish Division, S. Ashland Ave., at 29th St., Chicago
Franklin Research Co., 5134 Lancaster Ave., Phila. 31
Freesmeier Laboratories, 3661 Windsor Pl., St. Louis 13
McAlear Mfg. Corp., 101 S. Waterman Ave., Detroit 17
Fuld Bros., 702 S. Wolfe St., Baltimore
Hysan Products Co., 930 W. 38th Place, Chicago
Peck's Products Co., 610 Clarence Ave., St. Louis 15
Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
Uncle Sam Chemical Co., 573 W. 131st St., N. Y.
T. F. Washburn Co., 2244 Elston Ave., Chicago

SEALING MACHINERY (Bags)

Bag-Pak Div., Oshkosh, Wisc.
Bagpak, Inc., 220 E. 42nd St., N. Y. 17
Cosolidated Packaging Machy. Corp., 1400 West Ave., Buffalo 13, N. Y.
B. F. Gump Co., 1338 S. Cicero Ave., Chicago
Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh
R. Hurwich Co., 1043 Hearst Ave., Berkeley, Calif.
Paul L. Karstrom Co., 1834 W. 74th St., Chicago 36

SEALING MACHINERY (Cartons and Cases)

A-B-C Packaging Machy. Corp., Quincy, Ill.
Battle Creek Packaging Machines, Inc., Battle Creek, Mich.
Chisholm Ryder Co., Hanover, Pa.
Emhart Mfg. Co., Portland, Conn.
J. L. Ferguson Co., Joliet, Ill.
First Machy. Corp., 209 10th St., Bklyn. 15 (Used)
FMC Packaging Mchy. Div., 4972 Summerdale Ave., Phila., Pa.
R. A. Jones & Co., Box 485, Cincinnati
Paul L. Karstrom Co., 1824 W. 74th St., Chicago 36
Laub Engineering Co., 244 N. San Marino Ave., San Gabriel, Calif.
New Jersey Machine Corp., Hoboken, N. J.
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
Pneumatic Scale Corp., Quincy 71, Mass.
F. B. Redington Co., 3000 St. Charles Rd., Bellwood, Ill.
Triangle Package Machinery Co., 6643 W. Diversey Ave., Chicago
Weigh Right Automatic Scale Co., Mills Rd., Joliet, Ill.

SEQUESTERING AGENTS

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Antara Chemicals, 435 Hudson St., N. Y. 14
Atlas Powder Co., Wilmington 99, Dela.
Blockson Chemical Co., Joliet, Ill.
Dawe's Laboratories, 4800 S. Richmond St., Chicago 32
Dow Chem. Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
Fiber Chem. Corp., Matawan, N. J.
Geigy Industrial Chems., Ardsley, N. Y.
General Chem. Div., 40 Rector St., N. Y. 6
Hampshire Chem. Corp., Nashua, N. H.
Mona Industries, Inc., 65 E. 23rd St., Paterson, N. J.
Monsanto Chemical Co., St. Louis 4
Pfanzstiel Laboratories, 104 Lake View Ave., Waukegan, Ill.
Chas Pfizer & Co., 630 Flushing Ave., Bklyn.
Process Chems. Co., 8733 S. Dice Rd., Los Nietos, Calif.
Refined Prods. Co., 624 Schuyler Ave., Lyndhurst, N. J.
Rumford Chem. Wks., 19 Newman Ave., Rumford, R. I.
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago
Solvay Process Div., 61 Broadway, N. Y.
Tanatex Chem. Corp., Belleville Turnpike, Kearny, N. J.
Victor Chemical Works, 155 N. Wacker Drive., Chicago
Westvaco Mineral Prods. Div., 161 E. 42nd St., N. Y.
Wyandotte Chemicals Corp., Wyandotte, Mich.

SHAMPOO BASE (Ready for Dilution)

American Alcolac Corp., 3440 Fairfield Rd., Balto.
American Int'l. Prod. Corp., 138 Liberty St., N. Y. 6
Antara Chemicals, 435 Hudson St., N. Y. 14
Armour & Co., 1355 W. 31st St., Chicago
B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Baird & McGuire, Inc., South St., Holbrook, Mass.
Chem. Service of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
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Davies-Young Soap Co., Dayton, O.
Dominion Prods., Inc., 10-40 44 Dr., Long Island City
Fine Organics, Inc., 205 Main St., Lodi, N. J.
Fuld Bros., 702 S. Wolfe St., Baltimore 31
Geigy Industrial Chems., Ardsley, N. Y.
James Good, Inc., 2107 Susquehanna Ave., Phila.
Haag Laboratories, Inc., 14000 S. Seeley Ave., Blue Island, Ill.
Harley Soap Co., Pearce & Orthodox Sts., Phila., 37
R. M. Hollingshead Corp., Camden, N. J.
Hewitt Soap Co., 333 Linden Ave., Dayton, O.
Hysan Products Co., 930 W. 38th Place, Chicago
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Kranich Soap Co., 54 Richards St., Brooklyn
Maywood Chem. Wks., Maywood, N. J.
M. Michel & Co., 90 Broad St., N. Y. 4
Miranol Chem. Co., 277 Coit St., Irvington, N. J.
Mona Industries, 65 E. 23rd St., Paterson, N. J.
Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
Old Empire Inc., Mt. Prospect & Verona Ave., Newark, N. J.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2
Pilot Chemical Co. of Cal., 215 W. 7th St., Los Angeles 14
Procter & Gamble Dist. Co., Cincinnati 1
Rayette, Inc., 261 E. 5th St., St. Paul, Minn.
Sandoz, Inc., 61 Van Dam St., N. Y. 13
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Surfacto Co., Box 114, Blue Island, Ill.
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Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
Witco Chem. Co., 122 E. 42nd St., N. Y.

SHAMPOOS, POWDER AND CAKE

Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Davies-Young Soap Co., Dayton, O.
Hewitt Soap Co., 333 Linden Ave., Dayton, O.
Kranich Soap Co., 54 Richards St., Brooklyn
Lightfoot Co., 380 Madison Ave., N. Y. C.
M. Michel & Co., 90 Broad St., N. Y. 4
Procter & Gamble Dist. Co., Cincinnati
Stanalchem Inc., 350 Madison Ave., N. Y. 17
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago 9
Allen B. Wisley Co., 6801 W. 65th St., Chicago

SHAMPOOS, SOAPLESS

Antara Chems. Div., 435 Hudson St., N. Y. 14
Armour & Co., 1355 W. 31st St., Chicago 9
B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Chem. Service of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
Colgate-Palmolive Co., 300 Park Ave., N. Y.
Davies-Young Soap Co., Dayton, O.
Dominion Prods., Inc., 10-40 44 Dr., Long Island City
Fuld Bros., 702 S. Wolfe St., Baltimore
Haag Laboratories, 14000 S. Seeley Ave., Blue Island, Ill.
Harley Soap Co., Pearce & Orthodox Sts., Phila. 37
Hewitt Soap Co., 333 Linden Ave., Dayton, O.
R. M. Hollingshead Corp., Camden, N. J.
Hysan Products Co., 930 W. 38th Place, Chicago
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Los Angeles Soap Co., 617 E. First St., Los Angeles

M. Michel & Co., 90 Broad St., N. Y. 4
Miranol Chemical Co., 277 Coit St., Irvington, N. J.
National Aniline Div., 40 Rector St., N. Y.
National Chem. Labs., 825 Lombard St., Phila.
Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City 2
Oronite Chem. Co., 200 Bush St., San Francisco
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis 4
Pilot Chemical Co. of Cal., 215 W. 7th St., Los Angeles 14
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Stanalchem Inc., 350 Madison Ave., N. Y. 17
Witco Chem. Co., 122 E. 42nd St., N. Y.

SHAVING CREAM (soap and Brushless)

Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Davies-Young Soap Co., Dayton 1, O.
Lightfoot Co., 380 Madison Ave., N. Y. C.
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.
Peterson Filling & Packaging Co., Hegeler Lane, Danville, Ill.
Schmidt Soap Products Co., 236 W. North Ave., Chicago
John T. Stanley Co., 642 W. 30th St., N. Y.
Zenith Drug, Inc., 1 Vesey St., Newark, N. J.

SHAVING CREAM BASE

Armour & Co., 1355 W. 31 St., Chicago
E. F. Drew & Co., Boonton, N. J.
Frontier Chem. Prods., Inc., 119 E. Soper St., St. Louis
Miranol Chemical Co., 277 Coit St., Irvington, N. J.
Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.
Refined Prods Corp., 624 Schuyler Ave., Lyndhurst, N. J.
Schmidt Soap Products Co., 236 W. North Ave., Chicago
John T. Stanley Co., 642 W. 30th St., N. Y.
Van Dyk & Co., Belleville 9, N. J.

SHELLAC

Acme Shellac Prods. Co., 108 Blanchard St., Newark, N. J.
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Haeuser Shellac Co., 52 Warren St., Brooklyn
Mantrose Corp., 99 Park Ave., N. Y. C.
F. H. Paul & Stein Bros., 235 5th Ave., N. Y. 16
William H. Scheel, Inc., 38 Franklin St., Bklyn. 22
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Wm. Zinsser & Co., 516 W. 59th St., N. Y.

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SHOE POLISHES (Leather Dressings) for the Trade

Asco Chemical Co., 641 Lexington Ave., Bklyn.
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Help, Inc., 122 W. Kinzie St., Chicago
R. H. Hollingshead Corp., Camden, N. J.
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D. S. Lesnever & Son, 213 Summer St., Lynn, Mass.
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H. F. Staples Co., Medford, Mass.
Walco Prods., Inc., 36 Woodland St., Hartford, Conn.
Wilco Co., 4425 Bandini Blvd., Los Angeles 23
Windsor Wax Co., 611 Newark St., Hoboken, N. J.

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Alba Cork Co., 93 Oxford Ave., Jersey City, N. J.
American Cork Specialties Co., 140 Junius St., Brooklyn
Applicator Brush Co., 100 Water St., Brooklyn, N. Y.
Armstrong Cork Co., Lancaster, Pa.
Gibson Associates, 390 North Ave., Cranford, N. J.
Ox Fiber Brush Co., Frederick, Md.

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B. F. Gump Co., 1338 S. Cicero Ave., Chicago
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First Machy. Corp., 209 10th St., Bklyn. 15 (Used)
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.
Ludlow-Sayer Wire Co., St. Louis, Mo.
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
Orville Simpson Co., 1230 Knolton St., Cincinnati
Simplicity Engineering Co., Durand, Mich.
Sprout, Waldron & Co., Muncy, Pa.
Stephens-Adamson Mfg. Co., Aurora, Ill.
Sturtevant Mill Co., Park & Clayton Sts., Boston
Young Machinery Co., Muncy, Pa.

SILICA

Chas. B. Chrystal Co., 53 Park Pl., N. Y.
Dicalite Div., 612 S. Flower St., Los Angeles, Calif.
E. I. du Pont de Nemours & Co., Wilmington (Colloidal)
Eagle-Picher Co., Cincinnati 1, (Diatomaceous)
Illinois Silica Co., Cairo, Ill.
Johns-Manville Prods. Corp., 22 E. 40th St., N. Y.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Tamms Industries, Inc., 228 N. LaSalle St., Chicago
Charles A. Wagner Co., 4455 N. 6th St., Phila. 23
Whittaker, Clark & Daniels, 100 Church St., N. Y.
Witco Chemical Co., 122 E. 42nd St., N. Y.

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General Electric Co., Waterford, N. Y.
Silicones Div., Union Carbide Corp., 30 E. 42 St., N. Y. 17

SKIN CLEANERS (see Hand Soaps)

SOAP AND DETERGENT PLANT ENGINEERING

Chemithon Corp., 5430 Marginal Way, Seattle, Wash.
Girdler Process Equipment Co., Louisville, Ky.
Industrial Process Engineers, 8 Lister Ave., Newark, N. J.
John J. Mahoney, 160 W. 56th St., N. Y. C.
J. W. McCutcheon, Inc., 475 Fifth Ave., N. Y.
G. Mazzoni, Busto Arsizio, Italy
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
Oronite Chem. Co., 200 Bush St., San Francisco
Project Construction Corp., 39 Broadway, N. Y. 6
Sharples Corp., 2300 Westmoreland St., Phila. 40
Henry Simon Ltd., Stockport, Cheshire, England
Foster D. Snell, 20 W. 15th St., N. Y. 11
Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

SOAP, CHIP (see Chip Soaps)

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Houchin Division, 300 Straight St., Paterson, N. J.
R. A. Jones & Co., Box 485, Cincinnati
Jas. H. Matthews & Co., 3942 Forbes St., Pittsburgh
G. Mazzoni, Busto Arsizio, Italy
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
I. Schwartz Engraving & Die Works, 241 Lafayette St., N. Y.

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American Dispenser Co., 860 Broadway, N. Y. 3



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Discard any previous issue of the BLUE BOOK which may be in use in your office and replace it with this current edition. Old directories and buyers' guides are frequently a source of misinformation. Incorrect addresses and obsolete listings are quite common in old directories due to constant changes taking place in the business world. Use only this 1960 BLUE BOOK. Throw all previous issues away.

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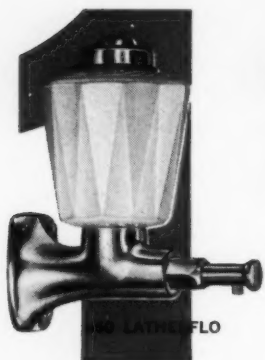
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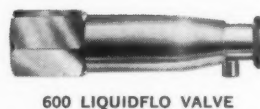
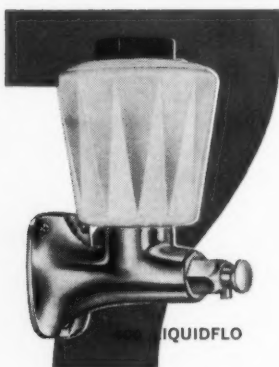
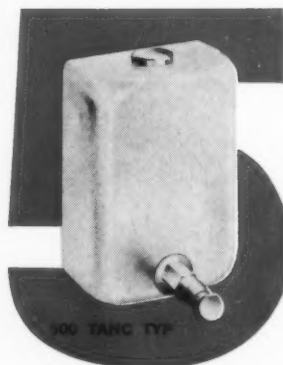
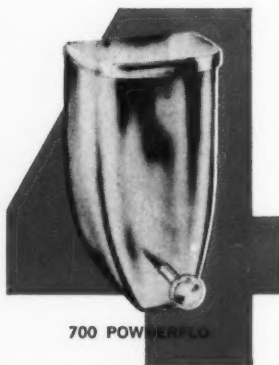
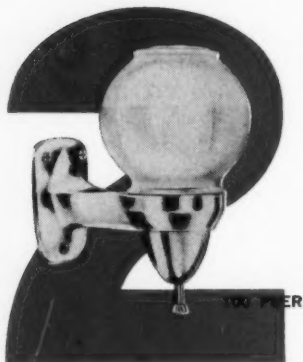


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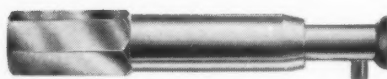
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Lightfoot Co., 380 Madison Ave., N. Y. C.
Moore Bros. Co., 101 Warren St., N. Y.
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10
Palmer Fixture Co., Waukesha, Wisc.
Sugar Beet Prods. Co., Saginaw, Mich.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
U. S. Borax & Chem. Corp., 50 Rockefeller Plaza, N. Y.
U. S. Sanitary Specialties Corp., 1001 S. Calif. Ave., Chicago 12
Utility Co., 636 W. 44th St., N. Y. 36

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Chem. Service of Baltimore, Howard & West Sts., Baltimore
Dema Engineering Co., 702 E. Big Bend Blvd., St. Louis
Economics Laboratory, Inc., Guardian Bldg., St. Paul
Fitzpatrick Bros., 1300 W. 32 Pl., Chicago 8
Fuld Bros., 702 S. Wolfe St., Baltimore
Hunnewell Soap Co., 114 W. 2nd St., Cincinnati
Hysan Products Co., 930 W. 38th Place, Chicago
Independent Specialties, 152 W. 75th St., Chicago
"J" Chemical Works, 602 W. 37th St., N. Y. 18
Miranol Chem. Co., 277 Coit St., Irvington, N. J.
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10
Peck's Prods Co., 610 E. Clarence Ave., St. Louis 15
Theobald Industries, P. O. Box 72, Harrison, N. J.
James Varley & Sons, 1200 Switzer Ave., St. Louis 15
Wyandotte Chemicals Corp., Wyandotte, Mich.

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American Dispenser Co., 860 Broadway, N. Y. 3
Bobrick Dispensers, Inc., 1216 Nostrand Ave., Bklyn. 25
Fuld Bros., 702 S. Wolfe St., Baltimore
Hysan Products Co., 930 W. 38th Place, Chicago
Moore Bros. Co., 100 Warren St., N. Y.
Palmer Fixture Co., Waukesha, Wisc.
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago
Uncle Sam Chem. Co., 573 W. 131st St., N. Y. 27

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American Dispenser Co., 860 Broadway, N. Y. 3
Bobrick Dispensers, Inc., 1216 Nostrand Ave., Bklyn. 25
Hysan Prods. Co., 930 W. 38th Place, Chicago 9
Imperial Brass Co., 1237 W. Harrison St., Chicago
Moore Bros. Co., 101 Warren St., N. Y.
Palmer Fixture Co., Waukesha, Wisc.
Spraying Systems Co., 3217 Randolph St., Bellwood, Ill.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
U. S. Sanitary Specialties Corp., 1001 S. Calif. Ave., Chicago 12

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Bobrick Dispensers, Inc., 1216 Nostrand Ave., Bklyn. 25
Hysan Prods. Co., 930 W. 38th Place, Chicago 9
Moore Bros. Co., 101 Warren St., N. Y.
Palmer Fixture Co., Waukesha, Wisc.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis, Mo.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
U. S. Sanitary Specialties Corp., 1001 S. Calif. Ave., Chicago 12

SOAP DISPENSERS (Waterless Hand Cleaner)

Bobrick Dispensers, Inc., 1216 Nostrand Ave., Bklyn, 25
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Dema Engineering Co., 702 E. Big Bend Blvd., St. Louis
DL Products, Inc., 51 E. Market St., Buffalo 4, N. Y.
Donner & Co., 135 Henry Ave., Winnipeg, Canada
Hammons Products, Inc., 1141 W. Wildwood Ave., Fort Wayne, Ind.
Hysan Prods. Co., 930 W. 38th Place, Chicago 9
Kalene Corp., 2736 Lyndale Ave., So., Minneapolis
Kutol Products, Inc., 2817 Highland Ave., Cincinnati
Mione Mfg. Co., Collingdale, Pa.
National Soap Dispenser Co., 230 W. 116 St., Los Angeles, Calif.
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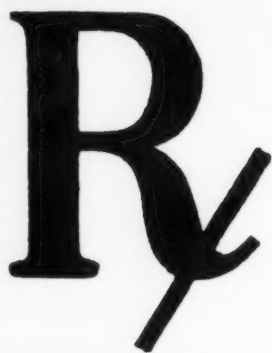
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Sugar Beet Prods. Co., Saginaw, Mich.
Utility Co., 636 W. 44th St., N. Y. C. 36

SOAP DISPENSERS (Liquid)

Ace Dispenser Co., 100 Broadway, Buffalo, N. Y.
American Dispenser Co., 860 Broadway, N. Y. 3
Bobrick Dispensers, Inc., 1216 Nostrand Ave., Bklyn. 25
Dema Engineering Co., 702 E. Big Bend Blvd., St. Louis
Donner & Co., 135 Henry Ave., Winnipeg, Canada
Fuld Bros., 702 Wolfe St., Baltimore
Hysan Products Co., 930 W. 38th Place, Chicago
Imperial Brass Co., 1237 W. Harrison St., Chicago
Moore Bros. Co., 101 Warren St., N. Y.
National Dispenser Co., 230 W. 116th St., Los Angeles (paste)
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10
Palmer Fixture Co., Waukesha, Wisc.
Sugar Beet Prods. Co., Saginaw, Mich.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
U. S. Sanitary Specialties Corp., 1001 S. Calif. Ave., Chicago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis

SOAP DISPENSERS, for attaching to drums. (See Soap Solutionizing Devices; Pumps, Barrel)

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Buffalo Foundry & Machine Co., Buffalo, N. Y.
Ellis Dryer Co., 2444 N. Pulaski Ave., Chicago
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Houchin Division, 300 Straight St., Paterson, N. J.
Industrial Process Engineers, 8 Lister Ave., Newark 5, N. J.
J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.
G. Mazzoni, Busto Arsizio, Italy
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
Patterson Kelley Co., East Stroudsburg, Pa.
Procter & Schwartz, 7th St. & Tabor Rd., Philadelphia
C. G. Sargent's Sons Corp., Graniteville, Mass.
Henry Simon Ltd., Cheadle Heath, Stockport, England
F. J. Stokes Corp., 5500 Tabor Rd., Phila.
B. F. Sturtevant Co., Hyde Park, Boston
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Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
Procter & Schwartz, 7th St. & Tabor Rd., Philadelphia
C. G. Sargent's Sons Corp., Graniteville, Mass.
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F. J. Stokes Machine Co., Phila. 20

SOAP FRAMES

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Littleford Bros., 451 E. Pearl St., Cincinnati
G. Mazzoni, Busto Arsizio, Italy
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
Henry Simon Ltd., Stockport, England

SOAP KETTLES

Alloy Prods. Corp., 221 Madison St., Waukesha, Wis.
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S. Blickman, Inc., 72 Gregory Ave., Weehawken, N. J.
Craddock Equipment Co., 1507 A St., Wilmington, Del.
J. H. Day Co., 1444 Harrison Ave., Cincinnati
Edge Moor Iron Wks., Edge Moor, Dela.
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Houchin Division, 300 Straight St., Paterson, N. J.
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"Endurance Tested"
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The preference of
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Terris Div. Consolidated Siphon Supply Co., 22 Wooster St., N. Y.

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SOAP, GREEN (see Potash Soaps)

SOAP, HARD WATER (see Hard Water Soaps)

SOAP, LAUNDRY (see Laundry Soap)

SOAP, LIQUID (see Cleaners; Potash Soaps)

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G. Mazzoni, Busto Arsizio, Italy
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
Sharp Bros., 201 Orient St., Bayonne, N. J. (Cutters)
Henry Simon Ltd., Cheadle Heath, Stockport, England
Vickers Ltd., Westminster, London, England

SOAP, MARINE (see Hardwater Soaps)

SOAP MEDICINAL (see Medicinal Soaps)

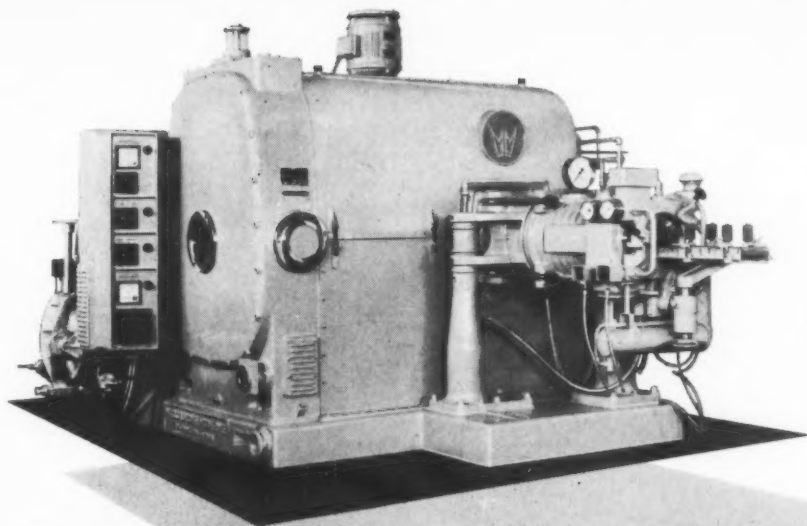


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If you are unable to find a listing in this edition of the SOAP BLUE BOOK for some product which you want to purchase, — a piece of equipment, a raw material, a bulk or private brand item, — drop a line to the Editors and they will do their best to locate a source of supply for you. But first, check through all the possible listing heads in this edition. If you can't find what you want, we shall be glad to help.

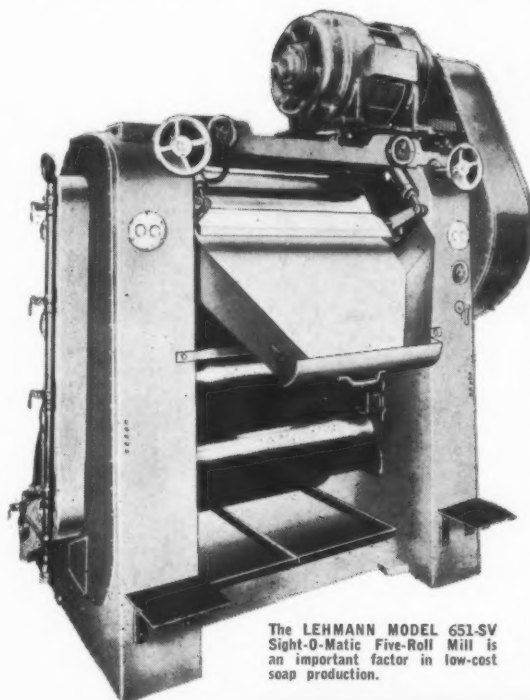
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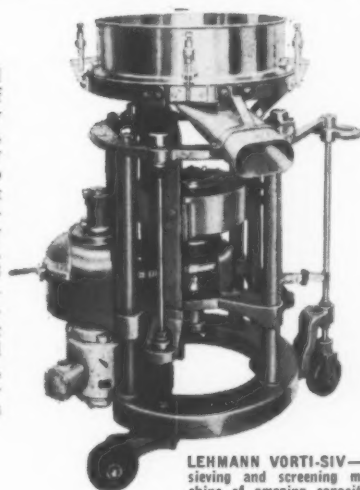
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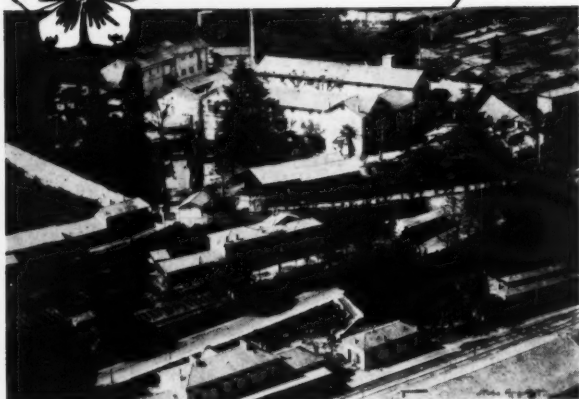
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J. M. Lehmann Co., 566 New York Ave., Lyndhurst, N. J.
G. Mazzoni, Busto Arsizio, Italy
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
Franklin P. Miller & Son, 36 Meadow St., East Orange, N. J.
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago (Used)
Chas. Ross & Son Co., 148 Classon Ave., Bklyn 5
Skinner Engine Co., Erie, Pa.
Vickers Ltd., Westminster, London, England

SOAP AND DETERGENT PLANTS (Continuous Process)

De Laval Separator Co., Poughkeepsie, N. Y.
Emery Industries, Carew Tower, Cincinnati, O.
G. Mazzoni, Busto Arsizio, Italy
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
Sharples Corp., 23rd & Westmoreland Sts., Phila. 40
A. Savy, Jeanjean & Cie, Ave. Dubonnet, Courbevoie, France
Foster D. Snell, 29 W. 15th St., N. Y. 11
Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chgo.

SOAP, MOTTLED (see Mottled Soaps)

SOAP PAPER (Soap Sheets, Soap Pads, Soap Books—also Soap Cloth)

Burlington Soap Co., 111 Washington St., Chicago 2
Charles F. Hubbs & Co., 383 Lafayette St., N. Y.
Moore Bros. Co., 101 Warren St., N. Y.

SOAP PERFUMES (see also Aromatic Chemicals, Essential Oils, Perfuming Compounds)

Alfa Essential Oil Co., 6 Varick St., N. Y.
American Aromatics, Inc., 24 E. 21st St., N. Y. 10
Aromatic Products, Inc., 235 4th Ave., N. Y. 3

INDEX

TO

SOAP & CHEMICAL SPECIALTIES

MONTHLY ISSUES

begins

on PAGE 277

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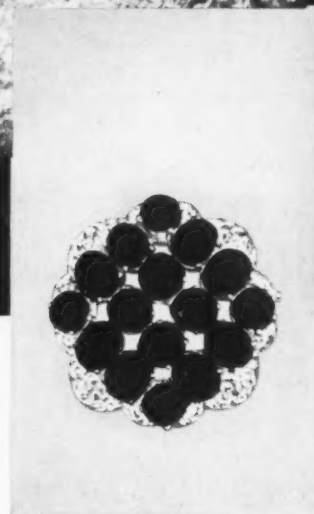
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 W. J. Bush & Co., 137 Boston Post Rd., Cos Cob, Conn.
 Charabot & Co., 114 E. 25th St., N. Y.
 Antoine Chiris Co., 220 E. 23rd St., N. Y.
 Pierre Coutin Associates, 118 E. 28th St., N. Y.
 Delaire, Inc., 240 W. 30th St., N. Y.
 Descollonges, Inc., 160 5th Ave., N. Y. 10
 Dodge & Olcott, Inc., 180 Varick St., N. Y.
 Dow Chemical Co., Midland, Mich.
 Dragoco, Inc., 250 W. Broadway, N. Y. 13
 P. R. Dreyer, Inc., 601 W. 26th St., N. Y.
 Eastman Chem. Prods., Kingsport, Tenn.
 Felton Chemical Co., 603 Johnson Ave., Brooklyn
 Firmenich, Inc., 250 W. 18th St., N. Y.
 Flam-Haft Laboratories, 8 E. 12th St., N. Y. 3
 Fleuroma, Inc., 38 W. 21st St., N. Y. 10
 Florasynth Labs., 900 Van Nest Ave., N. Y.
 Fries & Fries, Inc., 110 E. 70th St., Cincinnati
 Fritzsche Bros., Inc., 76 Ninth Ave., N. Y.
 Givaudan-Delawanna, Inc., 321 W. 44th St., N. Y.
 Gunning & Gunning, 305 E. 46th St., N. Y.
 Heine & Co., 601 W. 26th St., N. Y. 1
 Hoffman-LaRoche, Inc., Nutley, N. J.
 D. W. Hutchinson & Co., 700 S. Columbus Ave., Mt. Vernon, N. Y.
 International Flavors & Fragrances, Inc., 521 W. 57 St., N. Y. C.
 Lautier Fils, 321 Fifth Ave., N. Y.
 Geo. Lueders & Co., 427 Washington St., N. Y.
 Magnus, Mabey & Reynard, 16 Desbrosses St., N. Y.
 Neumann-Buslee & Wolfe, 5800 Northwest Highway, Chicago
 N. Y. Aromatics Corp., High Bridge, N. J.
 Norda Essential Oil & Chem. Co., 601 W. 16th St., N. Y.
 Noville Essential Oil Co., 1312 5th St., N. Bergen, N. J.
 Orbis Products Corp., 601 W. 26th St., N. Y.
 S. B. Penick & Co., 100 Church St., N. Y.
 Perfumery Associates, Inc., 160 E. 56th St., N. Y.
 Perry Bros., Inc., 61-12 32nd Ave., Woodside 77, N. Y.
 Polak's Frutal Works, 33 Sprague Ave., Middletown, N. Y.
 Polarome Co., 73 Sullivan St., N. Y. C.
 Reynaud, Ltd., 900 21 St., Union City, N. J.
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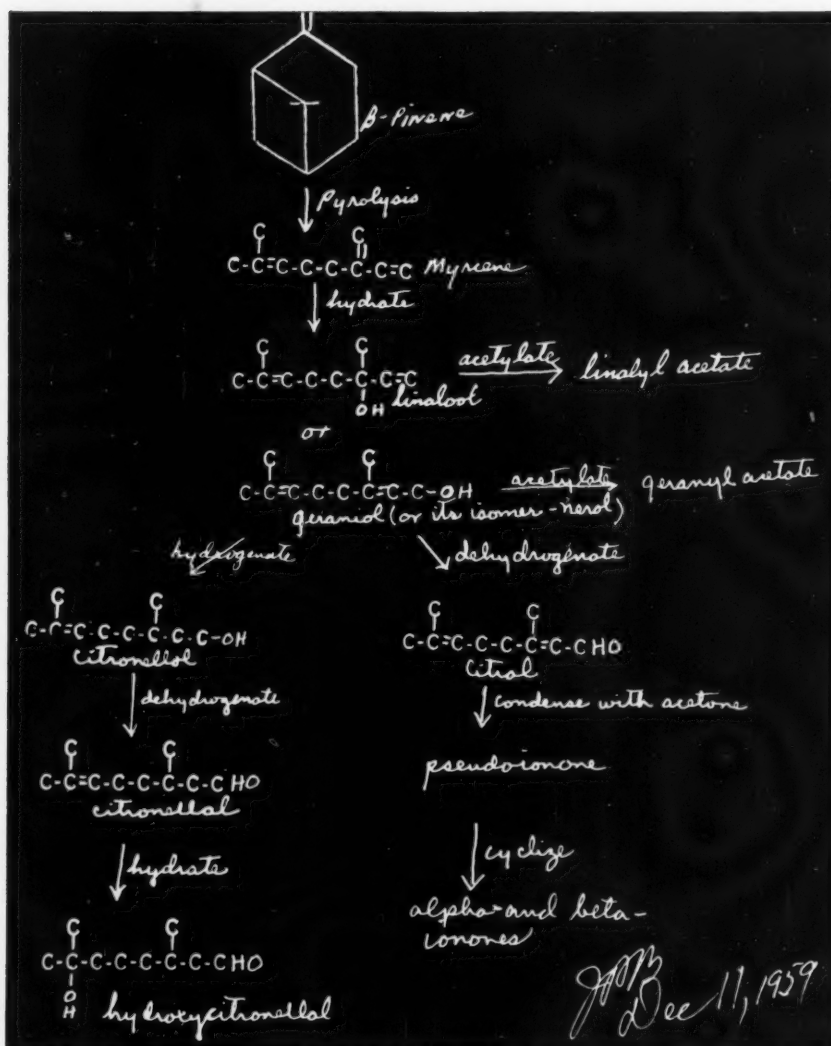
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Schimmel & Co., 601 W. 26th St., N. Y.
Edwin Seebach Co., 912 Broadway, N. Y.
Seeley & Co., Nyack, N. Y.
Shulton, Inc., 630 5 Ave., N. Y.
Synfleur Scientific Labs., Monticello, N. Y.
Syntomatic Corp., 114 E. 32nd St., N. Y.
Tombarel Prods. Corp., 725 Broadway, N. Y. 3
Ungerer & Co., 161 Avenue of Americas, N. Y.
Van Dyk & Co., Main & William Sts., Belleville 9, N. J.
Albert Verley & Co., 1375 E. Linden Ave., Linden, N. J.
Verona Aromatics, 26 Verona Ave., Newark, N. J.
R. D. Webb & Co., 137 Boston Post Rd., Cos Cob, Conn.

SOAP, POWDERED (White neutral powdered soap, powdered castile soap, etc., 95-99 per cent anhydrous soap. Do not confuse with Soap Powders.)

Armour & Co., 1355 W. 31st St., Chicago 9
Britex Corp., 17 Lewis Wharf, Boston
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
Hewitt Soap Co., 333 Linden Ave., Dayton, O.
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
Kranich Soap Co., 54 Richards St., Brooklyn, N. Y.
Lever Bros. Co., 390 Park Ave., N. Y. 22
Mione Mfg. Co., Collingdale, Pa.
National Milling & Chem. Co., 4601 Flat Rock Rd., Phila.
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Standard Soap Co., 205 S. 2nd St., Camden, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago 9
Warren Chem. Mfg., Inc., Norwood, Mass.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

SOAP POWDERS (Do not confuse with pure powdered soaps)

ABC Compounding Co., Oakcliff & Harwell Rds., Atlanta, Ga.
Armour & Co., 1355 W. 31st St., Chicago 9
B & W Chem. Co., 25920 Belle Porte Ave., Harbor City, Calif.
Beach Soap Co., Lawrence, Mass.
Britex Corp., 17 Lewis Wharf, Boston
Chicago Sanitary Prods. Corp., 3100 S. Throop St., Chicago 8
Cowles Chemical Co., 7016 Euclid Ave., Cleveland
East Coast Soap Corp., 89 Coffey St., Bklyn. 31
Essential Chems. Co., 5906 N. Port Washington Ave., Milwaukee
Fitzpatrick Bros., 1300 W. 32 Pl., Chicago 8
Frontier Chem. Prods., Inc., 119 E. Soper St., St. Louis
R. M. Hollingshead Corp., Camden, N. J.
Hysan Prods. Co., 930 W. 38th Place, Chicago 9
"J" Chemical Works, 602 W. 37th St., N. Y. C. 18
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
Klix Chem. Co., 551 Railroad, S. San Francisco
H. Kohnstamm & Co., 161 6th Ave., N. Y. C.
Lever Bros. Co., 390 Park Ave., N. Y.
Los Angeles Soap Co., 617 E. First St., Los Angeles
M. Michel & Co., 90 Broad St., N. Y. 4
Midland Laboratories, Dubuque, Iowa
Miranol Chem. Co., 277 Coit St., Irvington, N. J.
National Southern Products, Tuscaloosa, Ala.
National Milling & Chem. Co., 4601 Flat Rock Rd., Phila. 27
Nopco Chemical Co., 60 Park Pl., Newark 1, N. J.
North Coast Soap & Chem. Wks., Seattle, Wash.
G. H. Packwood Mfg. Co., 1545 Tower Grove Ave., St. Louis 10
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Procter & Gamble Distributing Co., Cincinnati
S. & S. Soap Co., 815 E. 135 St., N. Y. 54
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Standard Soap Co., 205 S. 2nd St., Camden, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Warren Chem. Mfg., Inc., Norwood, Mass.
Wyandotte Chemicals Corp., Wyandotte, Mich.

SOAP PRESSES (see Presses)

SOAP SHEETS (see Soap Paper)

1960 BLUE BOOK

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Davies-Young Soap Co., Dayton, O.
Dema Engineering Co., 702 E. Big Bend Blvd., St. Louis
Force-Flo, Inc., Box 2442, East Cleveland, O.
Hysan Prods. Co., 930 W. 38th Place, Chicago 9
Independent Specialties, 152 W. 75th St., Chicago
"J" Chemical Works, 602 W. 37th St., N. Y. C. 18
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Piatt & Smillie Chemicals, 3419 Gratiot Ave., St. Louis
Theobald Industries, P. O. Box 72, Harrison, N. J.
U. S. Sanitary Specialties Corp., 1001 S. California Blvd., Chicago 12
James Varley & Sons, 1200 Switzer Ave., St. Louis

SOAP SLABBERS (see Soap Machinery)

SOAP SPRAY TOWERS (see Spray Towers)

SOAP STOCK (Boiled down cotton oil soap stock, etc.) (see also Brokers and Dealers)

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Armour Industrial Chem. Co., 110 N. Wacker Dr., Chicago
T. G. Cooper & Co., Cedar & Venango Sts., Phila.
Falk & Co., Pittsburgh 30
Wm. H. Floyd & Co., Los Angeles
Hewitt Soap Co., 333 Linden Ave., Dayton, O.
Portsmouth Cotton Oil Refining Co., Portsmouth, Va.
Procter & Gamble Dist. Co., Cincinnati, O.
Southern Cotton Oil Co., 25 Broad St., N. Y.
A. E. Staley Mfg. Co., Decatur, Ill.
Swift & Co., Chicago 9
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

SOAP TISSUES, (see Soap Papers)

SOAP VALVES (see Soap Dispensers, Multi-unit)

SOAP, WHALE OIL (see Whale Oil Soap)

SOAP WRAPPING MACHY (see Wrapping Mach.)

SOAPLESS DETERGENTS (see Detergents, Synthetic)

SOAPLESS SHAMPOO (see Shampoos, Soapless)

SOAPS, ANTISEPTIC AND DEODORANT (Cake and liquid)

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B & W Chem. Co., 25920 Belle Porte, Harbor City, Calif.
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Bixon Chem. Corp., 1163 Southern Blvd., N. Y. 59
Chem. Service of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
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Davies-Young Soap Co., Dayton, O.
Essential Chemicals Co., 5906 N. Port Washington Rd., Milwaukee
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Freesmeier Laboratories, 3661 Windsor Pl., St. Louis 13
Fuld Bros., 702 S. Wolfe St., Baltimore
Haag Labs., Inc., 14000 S. Seeley Ave., Blue Island, Ill.
Harley Soap Co., Pearce & Orthodox Sts., Phila. 37.
Hewitt Soap Co., 333 Linden Ave., Dayton, O.
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Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Piatt & Smillie Chemicals, 3419 Gratiot Ave., St. Louis
Purex Corp., 9300 Rayo Ave., South Gate, Calif.
Reily Chemical Co., P. O. Box 98, New Orleans, La.
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
Southern Chemical Prods. Co., 170 Poplar St., Macon, Ga.
Standard Soap Co., 205 S. 2nd St., Camden, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
Uncle Sam Chem. Co., 575 W. 131st St., N. Y. 27
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago
James Varley & Sons, 1200 Switzer Ave., St. Louis 15

SOAPS, AUTO (see Potash Soaps)

SOAPS, FLOATING (see Floating Soaps)

SOAPS, GRANULATED (see Laundry Soaps, Granulated)

SOAPS, SCOURING (see Scouring Soaps)

SOAPS, SCRUBBING (see Floor Scrub Soaps)

SOAPS, SURGICAL (see Potash Soaps)

SODA ASH

(see also Dealers)

American Potash & Chem. Corp., 3030 W. 6th St., Los Angeles 54
Columbia-Southern Chem. Corp., Pittsburgh
Diamond Alkali Co., Union Commerce Bldg., Cleveland
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Jefferson Chem. Co., 1121 Walker Ave., Houston, Tex.
Olin Mathieson Chem. Corp., Baltimore 3
Solvay Process Div., 61 Broadway, N. Y.
Stauffer Chem. Co., 380 Madison Ave., N. Y. 17
Jos. Turner & Co., Ridgefield, N. J.
Virginia-Carolina Chem. Corp., Richmond, Va.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
West End Chem. Co., 1956 Webster St., Oakland, Calif.
Westvaco Chlor-Alkali Div., 161 E. 42nd St., N. Y.
Wyandotte Chemicals Corp., Wyandotte, Mich.

SODA, MODIFIED

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Diamond Alkali Co., Union Commerce Bldg., Cleveland
Solvay Process Div., 61 Broadway, N. Y.
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Virginia-Carolina Chem. Corp., Richmond, Va.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

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SODIUM ARSENITE

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General Chem. Div., 40 Rector St., N. Y. 6
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Merck & Co., Rahway, N. J.
Pennsalt Chems. Corp., 3 Penn Center, Phila. 2
Shepherd Chem. Co., Cincinnati 12, O.
Stauffer Chem. Co., 380 Madison Ave., N. Y. 17

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Heyden Newport Chemical Corp., 342 Madison Ave., N. Y. 17
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Merck & Co., Rahway, N. J.
Monsanto Chemical Co., St. Louis 4
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Chas. Pfizer & Co., 630 Flushing Ave., Bklyn.
Robeco Chems. Inc., 23 E. 26th St., N. Y. C.
Tenn. Prod. & Chem. Corp., Nashville 3, Tenn.

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Church & Dwight Co., 70 Pine St., N. Y. 5
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Diamond Alkali Co., Union Commerce Bldg., Cleveland
E. I. du Pont de Nemours & Co., Wilmington, Del.
Olin Mathieson Chem. Corp., Baltimore 3
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17
Robeco Chems. Inc., 23 E. 26th St., N. Y. C.
Solvay Process Div., 61 Broadway, N. Y. 6
Jos. Turner & Co., Ridgefield, N. J.
Victor Chemical Works, 155 N. Wacker Dr., Chicago 6
Virginia-Carolina Chem. Corp., Richmond 8, Va.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Wyandotte Chemicals Corp., Wyandotte, Mich.

SODIUM BICHROMATE

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Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Mallinckrodt Chem. Co., St. Louis 7
Merck & Co., Rahway, N. J.
Mutual Chemical Div., 99 Park Ave., N. Y.
Prior Chemical Corp., 420 Lexington Ave., N. Y.
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17
Solvay Process Div., 61 Broadway, N. Y. 6
Jos. Turner & Co., Ridgefield, N. J.

SODIUM BISULFATE (see Nitre Cake)

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U. S. Borax & Chem. Corp., 50 Rockefeller Plaza, N. Y.

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SODIUM CHLORATE

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J. T. Baker Chem. Co., Phillipsburg, N. J.
Chipman Chem. Co., Bound Brook, N. J.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Hooker Chemical Corp., Niagara Falls, N. Y.
Mallinckrodt Chem. Co., St. Louis 7
Merck & Co., Rahway, N. J.
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Jos. Turner & Co., Ridgefield, N. J.

SODIUM CHLORIDE (see Salt, Common Salt)

SODIUM CHLORITE

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Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17
Berkshire Chemicals, Inc., 420 Lexington Ave., N. Y. 17

SODIUM CYANIDE

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Mallinckrodt Chemical Wks., St. Louis 7
Koppers Co., Chamber of Commerce Bldg., Pittsburgh
Robeco Chems. Inc., 25 E. 26th St., N. Y. C.
Jos. Turner & Co., Ridgefield, N. J.

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SODIUM FLUOSILICATE (see Sodium Silicofluoride)

SODIUM GLUCONATE

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R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y. 10
Chas. Pfizer & Co., 630 Flushing Ave., Bklyn. 6

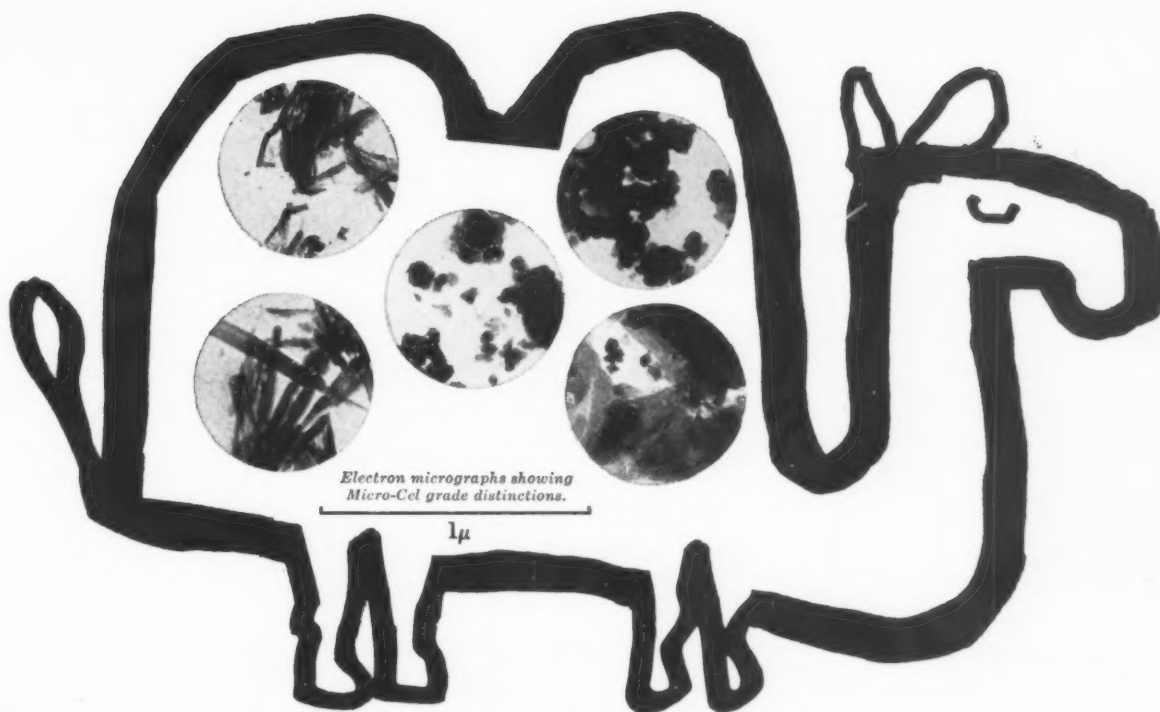
SODIUM HEXAMETAPHOSPHATE

Blockson Chemical Co., Joliet, Ill.
Hooker Chem. Corp., 666 5th Ave., N. Y.
Robeco Chemicals, Inc., 23 E. 26 St., N. Y.
Westvaco Mineral Prods. Div., 161 E. 42 St., N. Y.

SODIUM HYDROSULFITE

Antara Chemicals, 435 Hudson St., N. Y. 14
E. I. du Pont de Nemours & Co., Wilmington, Del.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Mallinckrodt Chemical Wks., St. Louis, Mo.
Merck & Co., Rahway, N. J.
Rohm & Haas Co., Inc., 222 W. Washington Sq., Phila.
Tennessee Corp., 617 Grant Bldg., Atlanta, Ga.
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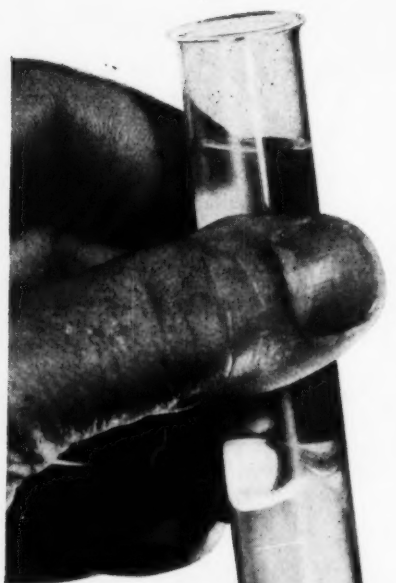
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Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
A. R. Maas Chem. Co., 4570 Ardine St., South Gate, Calif.
Mallinckrodt Chem. Wks., St. Louis
Merck & Co., Rahway, N. J.
S. B. Penick & Co., NYQ Chem. Div., 100 Church St., N. Y. 8
Rohm & Haas, 222 W. Washington Sq., Phila.
Jos. Turner & Co., Ridgefield, N. J.
Virginia Smelting Co., W. Norfolk, Va.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

SODIUM LAURYL SULFATE

Aceto Chem. Co., 40-40 Lawrence St., Flushing, N. Y.
American Alcolac Corp., 3440 Fairfield Rd., Baltimore
American Int'l. Prod. Corp., 138 Liberty St., N. Y. 6
Archer-Daniels-Midland Co., Minneapolis, Minn.
Chemo Puro Mfg. Co., 60 E. 42 St., N. Y. C.
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
Geigy Industrial Chems., Ardsley, N. Y.
Intex Chem. Corp., 167 Main St., Lodi, N. J.
M. Michel & Co., 90 Broad St., N. Y.
Monsanto Chemical Co., St. Louis 24, Mo.
National Aniline Div., 40 Rector St., N. Y.
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City, N. J.
Rayette, Inc., 261 E. 5th St., St. Paul, Minn.
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago
Stepan Chemical Co., 427 W. Randolph St.
Treplow Chemical Co., 59 Camden St., Paterson, N. J.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Witco Chem. Co., 122 E. 42nd St., N. Y.

SODIUM METABORATE

American Potash & Chem. Corp., 3030 W. 6th St., Los Angeles 54
U. S. Borax & Chem. Corp., 50 Rockefeller Plaza, N. Y. 20

SODIUM METAPHOSPHATE

Blockson Chemical Co., Joliet, Ill.
Hooker Chem. Corp., 666 5 Ave., N. Y.
Monsanto Chemical Co., St. Louis 4
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17
Rumford Chemical Wks., Rumford, R. I.
Victor Chem. Wks., 155 N. Wacker Dr., Chicago 6
Virginia-Carolina Chemical Corp., Richmond, Va.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Westvaco Mineral Prods. Div., 161 E. 42nd St., N. Y. 17

SODIUM METASILICATE (Anhydrous and Hydrated)

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Cowles Chemical Co., 7016 Euclid Ave., Cleveland
Diamond Alkali Co., Union Commerce Bldg., Cleveland
E. I. du Pont de Nemours & Co., Wilmington, Del.
General Chemical Div., 40 Rector St., N. Y. 6
Philadelphia Quartz Co., Public Ledger Bldg., Phila. 6
Virginia-Carolina Chem. Corp., Richmond 5, Va.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Wyandotte Chemicals Corp., Wyandotte, Mich.

SODIUM METHYLATE

R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.
Olin Mathieson Chem. Corp., Baltimore 3

SODIUM NITRITE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Solvay Process Div., 61 Broadway, N. Y.

SODIUM ORTHOSILICATE

American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Cowles Chemical Co., 7016 Euclid Ave., Cleveland

Diamond Alkali Co., Union Commerce Bldg., Cleveland
Dow Chemical Co., Midland, Mich.
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Philadelphia Quartz Co., Public Ledger Bldg., Phila. 6
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

SODIUM PERBORATE

Becco Chemical Div., River Rd., Buffalo 7, N. Y.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Mallinckrodt Chem. Wks., St. Louis 7
Merck & Co., Rahway, N. J.
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17

SODIUM PHOSPHATES (see also Sodium Metaphosphate, Sodium Tripolyphosphate, Tetrasodium Pyrophosphate, Trisodium Phosphate, etc.)

Am. Agricultural Chem. Co., 100 Church St., N. Y. C.
Blockson Chemical Co., Joliet, Ill.
E. I. du Pont de Nemours & Co., Wilmington, Del.
General Chemical Div., 40 Rector St., N. Y. 6
Hooker Chemical Co., 666 5 Ave., N. Y. C.
A. R. Maas Chem. Co., 4570 Ardine St., South Gate, Calif.
Monsanto Chemical Co., St. Louis 24, Mo.
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17
Rumford Chemical Wks., Rumford, R. I.
Stauffer Chem. Co., 380 Madison Ave., N. Y. 17
Victor Chemical Wks., 155 N. Wacker Dr., Chicago 6
Virginia-Carolina Chem. Corp., Richmond, Va.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Westvaco Mineral Prods. Div., 161 E. 42nd St., N. Y. 17

SODIUM PYROPHOSPHATE (see Tetrasodium Pyrophosphate)

SODIUM SESQUICARBONATE

Diamond Alkali Co., Union Commerce Bldg., Cleveland
Olin Mathieson Chem. Corp., Baltimore 3
Solvay Process Div., 61 Broadway, N. Y.
Virginia-Carolina Chemical Corp., Richmond, Va.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Westvaco Mineral Prods. Div., 161 E. 42nd St., N. Y. 17

SODIUM SESQUISILICATE

Cowles Chemical Co., 7016 Euclid Ave., Cleveland
Diamond Alkali Co., Union Commerce Bldg., Cleveland
Philadelphia Quartz Co., Public Ledger Bldg., Phila. 6
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10
Jos. Turner & Co., Ridgefield, N. J.
Virginia-Carolina Chem. Corp., Richmond 8, Va.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Wyandotte Chemicals Corp., Wyandotte, Mich.

SODIUM SILICATE

Diamond Alkali Co., Union Commerce Bldg., Cleveland
E. I. du Pont de Nemours & Co., Wilmington, Del.
General Chem. Div., 40 Rector St., N. Y. 6
Philadelphia Quartz Co., Public Ledger Bldg., Phila. 6
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10
Virginia-Carolina Chem. Corp., Richmond 5, Va.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

SODIUM SILICOFLUORIDE

Amer. Agricultural Chem. Co., 100 Church St., N. Y.
American-British Chem. Supplies, 180 Madison Ave., N. Y. 16
American Fluoride Corp., 151 W. 19th St., N. Y.
American Int'l. Prod. Corp., 138 Liberty St., N. Y. 6
Blockson Chemical Co., Joliet, Ill.
E. I. du Pont de Nemours & Co., Wilmington, Del.
General Chem. Div., 40 Rector St., N. Y.
Merck & Co., Rahway, N. J.
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10
Henry Sundheimer, Inc., 103 Park Ave., N. Y.
Tennessee Corp., Atlanta, Ga.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

SODIUM SULFATE (Glauber's Salt)

American Cyanamid Co., 30 Rockefeller Center, N. Y.
American Potash & Chem. Corp., 3030 W. 6th St., Los Angeles 54
J. T. Baker Chem. Co., Phillipsburg, N. J.

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SODIUM SULFATE (Glauber's Salt) (Contd.)

E. I. du Pont de Nemours & Co., Wilmington, Del.
General Chemical Div., 40 Rector St., N. Y.
Harshaw Chem. Co., 1945 E. 97th St., Cleveland
Koppers Co., Chamber of Commerce Bldg., Pittsburgh
Monsanto Chemical Co., St. Louis 24, Mo.
Morton Chem. Co., 110 N. Wacker Dr., Chicago 6
Prior Chem. Corp., 420 Lexington Ave., N. Y. 17
Stauffer Chem. Co., 380 Madison Ave., N. Y. 17
Jos. Turner & Co., Ridgefield, N. J.
U. S. Borax & Chem. Corp., 50 Rockefeller Plaza, N. Y. 20
U. S. Industrial Chems. Co., 99 Park Ave., N. Y. 16
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
West End Chemical Co., 1946 Webster St., Oakland, Calif.

SODIUM SULFITE

E. I. du Pont de Nemours & Co., Wilmington, Del.
General Chemical Div., 40 Rector St., N. Y. 6
Mallinckrodt Chemical Wks., St. Louis, Mo.
Koppers Co., Chamber of Commerce Bldg., Pittsburgh
Prior Chemical Corp., 420 Lexington Ave., N. Y.
A. R. Maas Chem. Co., 4570 Ardine St., South Gate, Calif.
Monsanto Chemical Co., St. Louis 24, Mo.
Reichhold Chemicals, Inc., White Plains, N. Y.
Victor Chemical Works, 155 N. Wacker Dr., Chicago
U. S. Industrial Chems. Co., 99 Park Ave., N. Y. 16

SODIUM TETRABORATE

American Potash & Chem. Corp., 3030 W. 6th St., Los Angeles 54
E. I. du Pont de Nemours & Co., Wilmington, Del.
Stauffer Chem. Co., 380 Madison Ave., N. Y. 17
U. S. Borax & Chem. Corp., 50 Rockefeller Plaza, N. Y.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

SODIUM TOLUENE SULFONATE

Continental Chem. Co., 195 21 Ave., Paterson, N. J.
Continental Oil Co., 1270 Ave. of Americas, N. Y. 20

M. Michel & Co., 90 Broad St., N. Y. 4
Pilot Chemical Co. of Cal., 215 W. 7 St., Los Angeles
Tennessee Corp., 619 Grant Blvd., Atlanta, Ga.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.

SODIUM TRIPOLYPHOSPHATE

Am. Agricultural Chem. Co., 100 Church St., N. Y. C.
Blockson Chemical Co., Joliet, Ill.
E. I. du Pont de Nemours & Co., Wilmington, Del.
General Chemical Div., 40 Rector St., N. Y.
Hooker Chemical Co., 666 5 Ave., N. Y. C.
Monsanto Chemical Co., St. Louis 24, Mo.
Rumford Chem. Wks., Rumford, R. I.
Victor Chemical Wks., 155 N. Wacker Dr., Chicago 6
Virginia-Carolina Chem. Corp., Richmond 8, Va.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Westvaco Mineral Prods. Div., 161 E. 42nd St., N. Y. 17

SODIUM XYLENE SULFONATE

American Alcolac Corp., 3440 Fairfield Rd., Baltimore
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
Continental Oil Co., 1270 Ave. of Americas, N. Y. 20
Intex Chem. Corp., 167 Main St., Lodi, N. J.
M. Michel & Co., 90 Broad St., N. Y. 4
Pilot Chemical Co. of Cal., 215 W. 7 St., Los Angeles
Tennessee Corp., 619 Grand Blvd., Atlanta, Ga.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Witco Chem. Co., 122 E. 42nd St., N. Y. 4

SOFT SOAPS (see Potash Soaps)

SOFTENERS (Textile)

Antara Chemicals, 435 Hudson St., N. Y.
Archer-Daniels-Midland Co., Minneapolis 2, Minn.
Armour Industrial Chemical Co., 110 N. Wacker Dr., N. Y. C.
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
Atlas Powder Co., Wilmington, Del.
Ciba Co., Fair Lawn, N. J.

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SOFTENERS (Textile) (Contd.)

Colgate-Palmolive Co., 300 Park Ave., N. Y.
 Continental Chem. Co., 195 21 Ave., Paterson, N. J.
 Continental Oil Co., 1270 Av. of Americas, N. Y. 20
 E. I. du Pont de Nemours & Co., Wilmington, Del.
 Emery Industries, Carew Tower, Cincinnati
 Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
 Geigy Industrial Chemicals, Ardsley, N. Y.
 General Mills, Inc., Kankakee, Ill.
 Glidden Co., Jacksonville 1, Fla.
 Intex Chem. Corp., 167 Main St., Lodi, N. J.
 Kessler Chem. Co., State Rd., Phila. 35
 Klux Chem. Co., 551 Railroad Ave., S. San Francisco
 M. Michel & Co., 90 Broad St., N. Y.
 Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
 Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City, N. J.
 Rayette, Inc., 261 E. 5th St., St. Paul, Minn.
 Rohm & Haas Co., 222 W. Washington Sq., Phila.
 Rumford Chem. Wks., Rumford, R. I.
 Sandoz, Inc., 61 Van Dam St., N. Y. 13
 Silicones Division, Union Carbide Corp., 30 E. 42 St., N. Y.
 Sole Chem. Corp., 7740 S. Chicago Ave., Chicago
 Sonneborn Chem. & Refin'g Corp., 300 4th Ave., N. Y.
 Standard Soap Co., 205 S. 2nd St., Camden, N. J.
 Stepan Chem. Co., 427 W. Randolph St., Chicago 6
 Treplow Chemical Co., 59 Camden St., Paterson, N. J.
 Tanatex Chem. Corp., Belleville Turnpike, Kearny, N. J.
 Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
 Witco Chem. Co., 122 E. 42nd St., N. Y. 17

SOLUBLE OILS (see Sulfonated Oils)**SOLUTIONIZING DEVICES (see Soap Solutionizing Devices)****SOLVENTS, ETHER (see Ethers)****SOLVENTS, CHLORINATED (see also alcohols, coal tar derivatives, etc.)**

Amsco Solvents & Chemical Co., 4619 Reading Road, Cincinnati 29
 Buffalo Solvents & Chemicals Corp., Box 73, Station B, Buffalo 7, N. Y.
 Central Solvents & Chemicals Co., 2540 W. Flournoy St., Chicago 12
 Commercial Solvents Corp., 260 Madison Ave., N. Y. 17
 Diamond Alkali Co., Union Commerce Bldg., Cleveland
 Dixie Solvents & Chems. Co., Dixie Highway, Louisville
 Dow Chemical Co., Midland, Mich.
 E. I. du Pont de Nemours & Co., Wilmington, Del.
 Eastman Chemical Prods. Co., Kingsport, Tenn.
 Fine Organics, Inc., 205 Main St., Lodi, N. J.
 Frontier Chem. Co., Wichita, Kan.
 Hercules Powder Co., 961 Market St., Wilmington (Terpene)
 Heyden Newport Chemical Corp., 342 Madison Ave., N. Y. 17
 Hooker Chem. Corp., Niagara Falls, N. Y.
 Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis
 Jefferson Chemical Co., 1121 Walker Ave., Houston, Tex.
 Koppers Co., Chamber of Commerce Bldg., Pittsburgh
 Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis 7, Mo.
 Monsanto Chemical Co., St. Louis 24, Mo.
 Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland 11, Ohio
 Olin Mathieson Chem. Corp., 745 5th Ave., N. Y. 22
 Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
 Plastics & Coal Chem. Div., 40 Rector St., N. Y. C.
 Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
 Shell Chemical Corp., 50 W. 50th St., N. Y. 18
 Skelly Oil Co., Kansas City, Mo.
 Solvay Process Div., 61 Broadway, N. Y.
 Southern Solv. & Chem. Corp., 1352 Jefferson Highway, New Orleans
 Stauffer Chem. Co., 380 Madison Ave., N. Y. 17
 Texas Solvents & Chemicals Co., 8501 Market St., Houston 15, Texas
 Toledo Sols. & Chem. Co., 4051 South Ave., Toledo, O.
 Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17
 U. S. Industrial Chemicals, Inc., 99 Park Ave., N. Y. 16
 Velsicol Chem. Corp., 330 E. Grand Ave., Chicago
 Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit 11
 Westvaco Chlor-Alkali Div., 161 E. 42nd St., N. Y.
 Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee
 Wolverine Sols. & Chems. Co., 2940 Stafford Ave., SW, Grand Rapids
 Wyandotte Chemicals Corp., Wyandotte, Mich.

SOLVENTS, GLYCOL ETHER

Dow Chem. Co., Midland, Mich.
 Olin Mathieson Chem. Corp., 745 5 Ave., N. Y.
 Union Carbide Chems. Co., 30 E. 42 St., N. Y. C.

SOLVENTS, NAPHTHA

Amoco Chems. Corp., 910 S. Michigan Ave., Chicago
 Amsco Solvents & Chemicals Co., 4619 Reading Road, Cincinnati 29
 Anderson-Prichard Oil Corp., Oklahoma City, Okla.
 Atlantic Refining Co., 260 S. Broad St., Phila.
 Buffalo Solvents & Chemicals Corp., Box 73, Station B, Buffalo 7, N. Y.
 Central Solvents & Chemicals Co., 2540 W. Flournoy St., Chicago 12
 Dixie Solvents & Chems. Co., Dixie Highway, Louisville
 Eastern States Pet. & Chem. Corp., Houston 12, Tex.
 Esso Standard Oil Co., 15 W. 51st St., N. Y. 19
 Gulf Oil Corp., 360 Lexington Ave., N. Y. 17
 Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis
 Koppers Co., Chamber of Commerce Bldg., Pittsburgh
 Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis 7, Mo.
 Ohio Solvents & Chems. Co., 3470 W. 140th St., Cleveland
 Pennsylvania Industrial Chem. Corp., Clairton, Pa.
 Pennsylvania Refining Co., Butler, Pa.
 Plastics & Coal Chem. Div., 40 Rector St., N. Y. 6
 Reilly Tar & Chemical Corp., Indianapolis
 Skelly Oil Co., 605 W. 47th St., Kansas City, Mo.
 Sinclair Petrochem., Inc., 600 5th Ave., N. Y. 20
 Socony Mobil Oil Co., 150 E. 42nd St., N. Y. 17
 Sonneborn Chem. & Refin'g Corp., 300 4th Ave., N. Y.
 Southern Solv. & Chem. Corp., 917 Jefferson Highway, New Orleans
 Standard Oil Co. (Calif.), 225 Bush St., San Francisco
 Tar Residuals, Inc., 420 Lexington Ave., N. Y.
 Texas Solvents & Chemicals Co., 8501 Market St., Houston 15, Texas
 Toledo Sols. & Chems. Co., 4051 South Ave., Toledo, O.
 Velsicol Corp., 330 E. Grand Ave., Chicago
 Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit 11
 Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee
 Wolverine Solv. & Chem. Co., 2940 Stafford Ave., SW, Grand Rapids

SOLVENTS, OXYGENATED

Amsco Sols. & Chems. Co., 3470 W. 140th St., Cincinnati
 Buffalo Solvents & Chems. Corp., P. O. Box #73, Sta. B, Buffalo
 Central Solvents & Chems. Co., 2540 W. Flournoy St., Chicago
 Dixie Sols. & Chems. Co., Dixie Highway, Louisville
 Enjay Co., 15 W. 51st St., N. Y. 19
 Hoosier Solvents & Chem. Corp., 1650 Luett St., Indianapolis
 Jefferson Chemical Co., 1121 Walker Ave., Houston, Texas
 Missouri Sols. & Chems. Co., 419 De Soto Ave., St. Louis
 National Aniline Div., 40 Rector St., N. Y.
 Ohio Sols. & Chems. Co., 3470 W. 140th St., Cleveland
 Olin Mathieson Chem. Corp., 745 5th Ave., N. Y. 22
 Southern Sols. & Chems. Corp., 917 Jefferson Highway, New Orleans
 Texas Solvents & Chems. Co., 8501 Market St., Houston.
 Toledo Sols. & Chems. Co., 4051 South Ave., Toledo, O.
 Union Carbide Chems. Co., 30 E. 42nd St., N. Y. 17
 U. S. Industrial Chems. Co., 99 Park Ave., N. Y.
 Western Sols. & Chems. Co., 6472 Selkirk Ave., Detroit
 Wisconsin Sols. & Chems. Co., 1719 S. 83rd St., Milwaukee
 Wolverine Sols. & Chems. Co., 2940 Stafford Ave., SW, Grand Rapids

SOLVENTS, PETROLEUM

Amoco Chems. Corp., 910 S. Michigan Ave., Chicago
 Amsco Solvents & Chemicals Co., 4619 Reading Road, Cincinnati 29
 Anderson-Prichard Oil Co., Oklahoma City, Okla.
 Atlantic Refining Co., 260 S. Broad St., Philadelphia
 Buffalo Solvents & Chemicals Corp., Box 73, Station B, Buffalo 7, N. Y.
 Commercial Solvents Corp., 260 Madison Ave., N. Y. 17
 Dixie Solvents & Chems. Co., Dixie Highway, Louisville
 Eastern States Pet. & Chem. Corp., Houston 12, Tex.
 Esso Standard Oil Co., 15 W. 51st St., N. Y.
 Hoosier Solvents & Chemicals Corp., 1650 Luett Ave., Indianapolis 22
 Missouri Solvents & Chemicals Co., 419 De Soto Ave., St. Louis 7, Mo.
 Ohio Solvents & Chemicals Co., 3470 W. 140th St., Cleveland 11, Ohio
 Penna. Industrial Chem. Corp., Clairton, Pa.
 Pennsylvania Refining Co., Butler, Pa.
 Phillips Petroleum Co., Bartlesville, Okla.
 Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
 Shell Oil Co., 50 W. 50th St., N. Y.
 Sinclair Petrochems., Inc., 600 5th Ave., N. Y. 20
 Skelly Oil Corp., 605 W. 47th St., Kansas City, Mo.
 Socony Mobil Oil Co., 150 E. 42nd St., N. Y. 10
 Sonneborn Chem. & Refin'g Corp., 300 4th Ave., N. Y. 10
 Southern Solv. & Chems. Corp., 917 Jefferson Highway, New Orleans
 Standard Oil Co. (Calif.), 225 Bush St., San Francisco
 Standard Oil Co. (Ohio), Midland Bldg., Cleveland
 Sun Oil Co., 1608 Walnut St., Phila. 3
 Texaco, Inc., 135 E. 42nd St., N. Y. 17
 Texas Solvents & Chemicals Co., 8501 Market St., Houston 15, Texas
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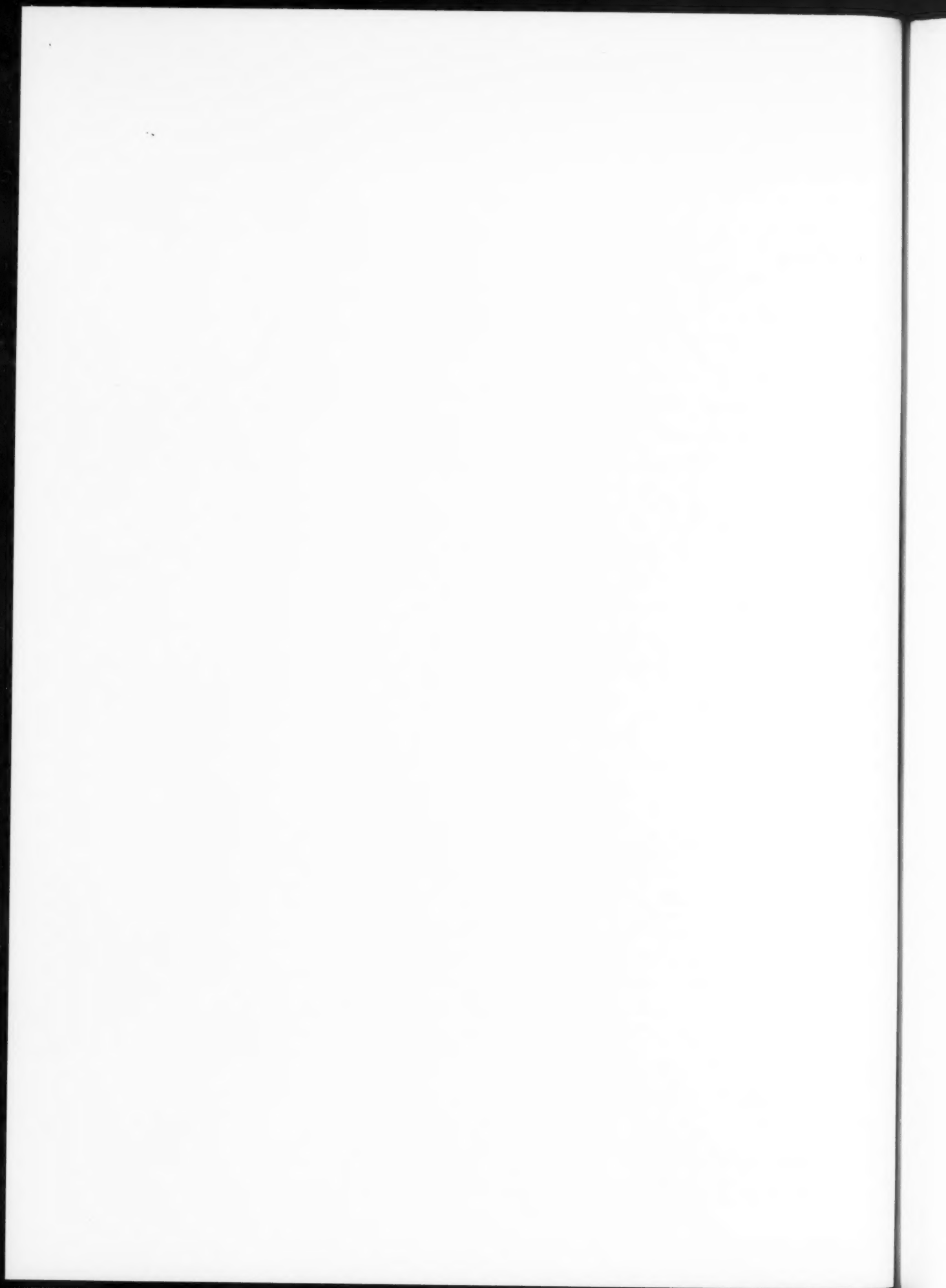
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SOLVENTS, PETROLEUM (Contd.)

Velsicol Chem. Corp., 330 Grand Ave., Chicago
Western Solvents & Chemicals Co., 6472 Selkirk Ave., Detroit 11
Wisconsin Solvents & Chemicals Corp., 1719 S. 83rd St., Milwaukee
Wolverine Solv. & Chems. Co., 2940 Stafford Ave., SW, Grand Rapids

SOYA BEAN OIL

Archer-Daniels-Midland Co., Minneapolis, Minn.
Balfour, Guthrie Co., 67 Wall St., N. Y.
Eastern Industries, Inc., Ridgefield, N. J.
Pacific Vegetable Oil Co., 1145 S. 10th St., Richmond, Calif.
Purina Mills, St. Louis
Robinson Wagner Co., 628 Waverly Ave., Mamaroneck, N. Y.
A. E. Staley Mfg. Co., Decatur, Ill.
Swift & Co., Hammond, Ind.
Vegetable Oil Prods., 5568 E. 61 St., Los Angeles
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
G. S. Ziegler & Co., Great Neck, N. Y.

SOYA BEAN FATTY ACIDS

Archer-Daniels-Midland Co., Minneapolis, Minn.
Armour Industrial Chemical Co., 110 N. Wacker Dr., Chicago
Capital City Prods. Co., 525 W. 1st St., Columbus, O.
Emery Industries, 4300 Carew Tower, Cincinnati 2
A. Gross & Co., 295 Madison Ave., N. Y. 17
Harchem Div., 25 Main St., Belleville, N. J.
Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
Procter & Gamble Dist. Co., Cincinnati 1
Robeco Chemicals, Inc., 23 E. 26th St., N. Y. 10
Swift & Co., Hammond, Ind.
Vegetable Oil Prods., 5568 E. 61 St., Los Angeles
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Wilson-Martin Div., Snyder Ave. & Swanson St., Phila.
Woburn Chem. Corp., 1200 Harrison Ave., Kearny, N. J.
G. S. Ziegler & Co., Box 348, Great Neck, N. Y.

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SPOT REMOVERS (see Stain Removers)

SPOTTING FLUIDS (see Cleaning Fluids)

SPOUTS (see Can Spouts)

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Bowen Engineering, Inc., North Branch, N. J.
G. Mazzoni, Busto Arsizio, Italy
J. W. McCutcheon, Inc., 475 Fifth Ave., N. Y.
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
Nichols Eng. & Research Corp., 70 Pine St., N. Y.
Procter & Schwartz, Inc., 7th St. & Tabor Rd., Phila.
Foster D. Snell, 29 W. 15th St., N. Y. 11
Swenson Evaporator Div., Whiting Corp., Whiting, Ill.
Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

SPRAY SYSTEMS, PERMANENT INSTALLATIONS

Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
Spraying Systems, Inc., 3266 Randolph St., Bellwood, Ill.
Virginia Smelting Co., West Norfolk, Va.
Z & W Mfg. Corp., 30240 Lakeland Blvd., Wickliffe, O.

SPRAYER NOZZLES (see Nozzles)

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Calmar Distributors, Inc., 5020 Spring Grove, Cincinnati, O.
R. E. Chapin Mfg. Wks., Batavia, N. Y.
Dobbins Div., Chamberlain Corp., Waterloo, Iowa
Evans-Crowder Co., South Lyon, Mich.
Federal Tool Corp., 3600 S. Pratt Blvd., Chicago 45
Gallo Co., 1312 Forest St., Racine, Wisc.
Hub States Chems. & Equipment, 1255 N. Windsor St., Indianapolis
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago
MacCarl Co., 4342 Pearl Rd., Cleveland, O.
D. B. Smith & Co., 414 Main St., Utica, N. Y.
Spraying Systems, Inc., 3266 Randolph St., Bellwood, Ill.
Z & W Mfg. Corp., 30240 Lakeland Blvd., Wickliffe, O.

SPRAYERS, COMPRESSED AIR (pressurized tank)

Acmeline Mfg. Co., Traverse City, Mich.
Champion Sprayer Co., 6523 Heintz Ave., Detroit 11
R. E. Chapin Mfg. Co., Batavia, N. Y.
Dema Engineering Co., 702 E. Big Bend, St. Louis 22
DeVilbiss Co., Toledo, O.
Dobbins Div.—Chamberlain Corp., Waterloo, Iowa
Gallo Co., 1312 Forest St., Racine, Wis. (built in systems)
Gray Co., 60 11 Ave., Minneapolis
Hub States Chems. & Equipment, 1255 N. Windsor St., Indianapolis
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago
Root-Lowell Corp., 445 N. Lake Shore Dr., Chicago
D. B. Smith & Co., 414 Main St., Utica, N. Y.
Spraying Systems Co., 3266 Randolph St., Bellwood, Ill.
Universal Metal Prods. Co., Lowell, Mich.

SPRAYERS, ELECTRIC

Acmeline Mfg. Co., Traverse City, Mich.
Binks Mfg. Co., 3114 Carroll Ave., Chicago
Breuer Elect. Mfg. Co., 5100 N. Ravenswood Ave., Chicago 40
DuLa Mfg. Co., 351 Atlantic Ave., Brooklyn, N. Y.
Hub States Chems. & Equipment, 1255 N. Windsor St., Indianapolis
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago
Root-Lowell Corp., 445 N. Lake Shore Dr., Chicago
Z & W Mfg. Corp., 30240 Lakeland Blvd., Wickliffe, O.

SPRAYERS, FOGGING

Buffalo Turbine Agr. Equip. Co., Gowanda, N. Y.
Curtis Automatic Devices, Medford, Ind.
Hub States Chems. & Equipment, 1255 N. Windsor St., Indianapolis
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago
Gallo Co., 1312 Forest St., Racine, Wisc.
Gard Industries, Inc., 1739 Harding Rd., Northfield, Ill.
Todd Shipyards Corp., 81-16 45th Ave., Elmhurst, N. Y.

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Acmeline Mfg. Co., Traverse City, Mich.
R. E. Chapin Mfg. Co., Batavia, N. Y.
Dobbins Div.—Chamberlain Corp., Waterloo, Iowa
Hub States Chems. & Equipment, 1255 N. Windsor St., Indianapolis
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago
Jaekkh Mfg. Co., Cincinnati
MacCarl Co., 4342 Pearl Rd., Cleveland, O.
Root-Lowell Corp., 445 N. Lake Shore Dr., Chicago
D. B. Smith & Co., 414 Main St., Utica, N. Y.
Standard Container, Inc., Rockaway, N. J.
Universal Metal Prods. Co., Lowell, Mich.
Volume Sprayer Mfg. Co., Tulsa, Okla.
Z & W Mfg. Corp., 30240 Lakeland Blvd., Wickliffe, O.

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John Bean Mfg. Co., Div. Food Mach. Co., Lansing, Mich.
Buffalo Turbine Agr. Equip. Co., Gowanda, N. Y.
Dobbins Div.—Chamberlain Corp., Waterloo, Iowa
A. B. Farquhar Co., 142 N. Duke St., York, Pa.
Gallo Co., 1312 Forest St., Racine, Wisc.
Gray Co., 60—11 Ave., Minneapolis
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago
Hardie Mfg. Co., Hudson, Mich.
F. E. Myers & Brothers Co., Ashland, O.
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Arnold Laboratories, 7103 Laurel Canyon Blvd., N. Hollywood, Calif.
DuLa Mfg. Co., 351 Atlantic Ave., Brooklyn
Madewell Products, Inc., 3125 E. 7th St., Oakland, Calif.
Root-Lowell Corp., 445 N. Lake Shore Dr., Chicago

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SQUILLS (Rodent Poison)

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Chem. Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
S. B. Penick & Co., 100 Church St., N. Y.
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1
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Clarkson Laboratories, 920 N. Darien St., Phila. 23
R. S. Cowan Co., 9 E. 38th St., N. Y. C.
Davies-Young Soap Co., Dayton, O.
Fuld Bros., 702 S. Wolfe St., Baltimore
Golden Star Polish Mfg. Co., 400 E. 10th St., N. Kansas City, Mo.
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Hysan Prods. Co., 930 W. 38th Place, Chicago 9
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Pace, Inc., MacArthur Rd., Wilmington, Dela.
Peterson Filling & Packaging Co., Hegeler Lane, Danville, Ill.
Tex-ite Prods. Corp., 859 E. 43 St., Bklyn. 10
Trio Chem. Wks., 341 Scholes St., Brooklyn
Wilco Co., 4425 Bandini Blvd., Los Angeles 23

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Archer-Daniels-Midland Co., Minneapolis 2
Corn Products Sales Co., 17 Battery Pl., N. Y.
Hercules Powder Co., Wilmington, Dela.
Keever Starch Co., 530 E. Town St., Columbus, O.
National Starch & Chem. Corp., 750 Third Ave., N. Y. 17
National Starch Prods., Inc., 750 Third Ave., N. Y. 17
A. E. Staley Mfg. Co., Decatur, Ill.

STARCH, LIQUID

Barton Chem. Co., 1230 W. 46 St., Chicago
Keever Starch Co., 530 E. Town St., Columbus, O.
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Atlas Powder Co., Wilmington, Del.
Capital City Prods. Co., 525 W. 1st St., Columbus, O.
Commercial Solvents Corp., 260 Madison Ave., N. Y. 17
E. I. du Pont de Nemours & Co., Wilmington, Del.
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y. 10
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Mallinckrodt Chem. Wks., St. Louis, Mo.
Merck & Co., Rahway, N. J.
Metasap Chem. Co., First & Essex Sts., Harrison, N. J.
Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
Nuodex Prods. Co., 342 Madison Ave., N. Y.
M. W. Parsons, Inc., 59 Beekman St., N. Y.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Swift & Co., Hammond, Ind.
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Whittaker, Clark & Daniels, 100 Church St., N. Y.
Witco Chemical Co., 122 E. 42nd St., N. Y.

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Archer-Daniels-Midland Co., Minneapolis, Minn.
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Armour Industrial Chemical Co., 110 N. Wacker Dr., Chicago
Acme-Hardesty Co., 60 E. 42nd St., N. Y. C.
Concord Chem. Co., 205 S. 3rd St., Camden, N. J.
Darling & Co., 4201 S. Ashland Ave., Chicago
Eastern Industries, Inc., Ridgfield, N. J.
Emery Industries, Inc., 4300 Carew Tower, Cincinnati
Fine Organics, Inc., 205 Main St., Lodi, N. J.
A. Gross & Co., 295 Madison Ave., N. Y.
Harchem Div., Inc., 25 Main St., Belleville 9, N. J.

Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
Orbis Products Corp., 601 W. 26th St., N. Y.
Robeco Chemicals, Inc., 25 E. 26th St., N. Y. 10
Swift & Co., Hammond, Ind.
Trendex Div., P. O. Box 4607, Memphis, Tenn.
Vegetable Oil Prods., 5568 E. 61 St., Los Angeles
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Will & Baumer Candle Co., Syracuse, N. Y.
Wilson-Martin Div., Snyder & Swanson, Phila.
Witco Chemical Co., 122 E. 42nd St., N. Y.
Weburn Chemical Corp., 1200 Harrison Ave., Kearny, N. J.
G. S. Ziegler & Co., Box 348, Great Neck, N. Y.

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Acme Hardesty Co., 60 E. 42nd St., N. Y.
Allied Asphalt & Mineral Corp., 39 Water Mill Lane, Great Neck, N. Y.
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Eastern Industries, Inc., Ridgfield, N. J.
Independent Mfg. Co., Bridgesburg, P. O., Phila.
Neatsfoot Oil Refineries Corp., E. Ontario & Bath Sts., Phila.
Swift & Co., Hammond, Ind.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
G. S. Ziegler & Co., Box 348, Great Neck, N. Y.
Zophar Mills, Inc., 112 26th St., Brooklyn, N. Y.

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Allied Asphalt & Mineral Corp., 39 Water Mill Lane, Great Neck, N. Y.
Emery Industries, Carew Tower, Cincinnati
A. Gross & Co., 295 Madison Ave., N. Y. 17
Neatsfoot Oil Refineries Corp., Ontario & Bath Sts., Phila.
Swift & Co., Hammond, Ind.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
G. S. Ziegler Co., Box 348, Great Neck, N. Y.
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Brillo Co., 60 John St., Bklyn. 1
DuraWool, Inc., 96-59 222nd St., Queens Village, N. Y.
International Steel Wool Co., Springfield, Ohio
S.O.S. Co., 7123 W. 65th St., Chicago 38
Williams Co., London, Ohio

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Archer-Daniels-Midland Co., Minneapolis, Minn.
American Alcolac Corp., 3440 Fairfield Rd., Baltimore
Armour Industrial Chemical Co., 110 N. Wacker Dr., Chicago
Antara Chem. Div., 435 Hudson St., N. Y.
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
E. I. du Pont de Nemours & Co., Wilmington, Del.
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National Aniline Div., 40 Rector St., N. Y.
Nopco Chemical Co., 60 Park Pl., Newark 1, N. J.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City, N. J.
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Rayette, Inc., 261 E. 5th St., St. Paul, Minn.
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago
Stepan Chem. Co., 427 W. Randolph St., Chicago
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PRODUCT		DESCRIPTION	PERCENT ACTIVE	PHYSICAL STATE	APPLICATION
QUATERNARIES	Ammonyx 4	Formulated stearyl dimethyl benzyl ammonium chloride	25	Paste	Anti-static and conditioning agents for cosmetics
	Ammonyx 4002	Stearyl dimethyl benzyl ammonium chloride	100	Powder	
	Ammonyx CO	Cetyl dimethyl amine oxide	20	Liquid	Wetting, emulsifying
	BTC 824	Alkyl dimethyl benzyl ammonium chloride	50	Liquid	Disinfectant, deodorant, germicide, fungicide
	BTC 927	Alkyl dimethyl dimethylbenzyl ammonium chloride	50	Liquid	
	Onyxide Series	Alkenyl dimethyl ethyl ammonium bromide	75	Paste	Algicide
	Tetrosan 3, 4D	Alkyl dimethyl 3,4 dichlorobenzyl ammonium chloride	60	Liquid	Disinfectant, deodorant, germicide, fungicide
NON-IONICS	Neutronyx 600 Series	Alkylphenol polyglycol ether containing from 4 to 30 moles ethylene oxide	100	Liquid	Detergent, wetting, emulsifying, dispersing
	Onyx-ol 336 & Onyx-ol 345	Lauric acid diethanolamine condensate	97	Liquid	Foam stabilizer, detergent, wetting, dispersing and thickener
	Onyx-ol 368	Lauric acid isopropanolamine condensate	97	Powder	Foam stabilizer
	Super Amide Series	High activity diethanolamine condensates	75-90	Liquid to solid	Foam stabilizers, emulsifiers and thickeners
SULFONATED OILS		Castor, soya, sperm, tallow	Various	Liquid	Detergent, dispersing
LAURYL SULFATES	Maprofix ES	Sodium lauryl ether sulfate	28	Liquid	Detergent, wetting, foaming and dispersing agents for industrial, cosmetic and pharmaceutical applications
	Maprofix LK	Sodium lauryl sulfate	90	Powder	
	Maprofix WA Series	Sodium lauryl sulfate	30	Liquid to paste	
	Maprofix 563	Sodium lauryl sulfate	99	Powder	
	Maprofix NH	Ammonium lauryl sulfate	30	Liquid	
	Maprofix TLS Series	Triethanolamine lauryl sulfate	40-75	Liquid to paste	
ANTI-STATIC AGENTS	Aston 108 & Aston LT	Thermosetting Polyamine	20	Liquid	Durable anti-static agents
	Aston R	Cationic polyamine	50	Paste	Anti-static agents, water and solvent soluble
	Aston AP	Cationic polyamine	50-100	Liquid	

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Continental Oil Co., 1270 Ave. of Americas, N. Y. 20
Eastern Industries, Inc., Ridgefield, N. J.
Emery Industries, 4300 Carew Tower, Cincinnati
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
Geigy Industrial Chemicals, Ardsley, N. Y.
Intex Chem. Corp., 167 Main St., Lodi, N. J.
M. Michel & Co., 90 Broad St., N. Y.
Nopco Chem. Co., 60 Park Pl., Newark 1, N. J.
National Aniline Div., 40 Rector St., N. Y. 6
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City 2
Petrochemicals Co., 301-5 Danciger Blvd., Fort Worth, Tex.
Shell Chemical Corp., 50 W. 50th St., N. Y. 20
Socony Mobil Oil Co., 150 E. 42nd St., N. Y. 10
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago
Sonneborn Chem. & Refin'g Corp., 300 4th Ave., N. Y. 10
Stepan Chem. Co., 427 W. Randolph St., Chicago
Sun Oil Co., 1608 Walnut St., Phila.
Swift & Co., Hammond, Ind.
Tennessee Corp., 617 Grant Bldg., Atlanta, Ga.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Witco Chem. Co., 122 E. 42 St., N. Y. 17

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Chemithon Corp., 5430 Marginal Way, Seattle, Wash.
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J. W. McCutcheon, Inc., 475 5th Ave., N. Y.
Meccaniche Moderne, Corso Sempione 51, Busto Arsizio, Italy
Oronite Chem. Co., 200 Bush St., San Francisco
Procter & Schwartz, Inc., 7th St. & Tabor Rd., Phila.
Wurster & Sanger, 5201 Kenwood Ave., Chicago

SULFONIC ACID

Ardmore Chem. Co., 840 Valley Brook Ave., Lyndhurst, N. J.
Continental Oil Co., 1270 Ave. of Americas, N. Y. 20



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Monsanto Chemical Co., St. Louis 24, Mo.
National Aniline Div., 40 Rector St., N. Y.
Oronite Chem. Co., 200 Bush St., San Francisco
Pilot Chemical Co. of Cal., 215 W. 7th St., Los Angeles
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago
Stepan Chem. Co., 427 W. Randolph St., Chicago
Surfacto Co., Box 114, Blue Island, Ill.
Tennessee Corp., 617 Grant Bldg., Atlanta, Ga.
Treprow Chemical Co., 59 Camden St., Paterson, N. J.
Ultra Chem. Works, 2 Wood St., Paterson, N. J.
Witco Chem. Co., 122 E. 42nd St., N. Y. 17

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Gulf Oil Corp., 360 Lexington Ave., N. Y. 17
Jefferson Lake Sulfur Co., Whitney Bldg., New Orleans, La.
Food Machy. & Chem. Corp., Middleport, N. Y.
Olin Mathieson Chem. Corp., Baltimore 3
Stauffer Chem. Co., 380 Madison Ave., N. Y. 17
Texas Gulf Sulphur Co., 75 E. 45th St., N. Y.

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Eagle-Picher Co., Cincinnati, O.
General Chem. Div., 40 Rector St., N. Y.
Monsanto Chemical Co., St. Louis 24, Mo.
Merck & Co., Rahway, N. J.
Olin Mathieson Chem. Corp., Baltimore 3
Pennsalt Chems. Corp., 3 Penn Center Plaza, Phila.
Reichhold Chemicals, Inc., White Plains, N. Y.
Rumford Chem. Wks., Rumford, R. I.
Stauffer Chem. Co., 380 Madison Ave., N. Y. 17
U. S. Industrial Chems. Co., 99 Park Ave., N. Y. 16
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

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Socony Mobil Oil Co., 150 E. 42nd St., N. Y. 17
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Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13

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American Cholesterol Prods., Talmadge Rd., Edison, N. J.
American Cyanamid Co., 30 Rockefeller Plaza, N. Y.
American Int'l. Prod. Corp., 138 Liberty St., N. Y. 6
Antara Chemicals, 435 Hudson St., N. Y. 14
Archer-Daniels-Midland Co., Minneapolis, Minn.
Ardmore Chem. Co., 840 Valley Brook Ave., Lyndhurst, N. J.
Armour Industrial Chemical Co., 110 N. Wacker Dr., Chicago
Atlantic Refining Co., 260 S. Broad St., Philadelphia
Atlas Powder Co., Wilmington, Del.
Blockson Chemical Co., Joliet, Ill.
Ciba Co., Fair Lawn, N. J.
Colgate-Palmolive Co., 300 Park Ave., N. Y.
Continental Chem. Co., 195 21 Ave., Paterson, N. J.
Continental Oil Co., 1270 Ave. of Americas, N. Y. 20
Commercial Solvents Corp., 260 Madison Ave., N. Y.
Dehydag Deutsche Hydrierwerke, Henkelstrasse 67, Dusseldorf, Germany
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MI—Distilled—Isopropyl Myristate.
PI—Distilled—Isopropyl Palmitate.
PGO—Fluid Fatty Glyceride Ester emulsifier-defoamer.
PH-1—Crystalline acid inhibitor.
TMG(P)—Mono-diglyceride emulsifier.

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SK-1—Hydrocarbon solvent (Hand Cleaner) solubilizer.
PD-2—Phosphatizer—degreaser emulsifier.
ODB-2—Orthodichlorobenzene emulsifier.

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OE Series—Ethoxylated Octyl Phenols.
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OW Series—High M.W. demulsifiers.
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Emery Industries, 4300 Carew Tower, Cincinnati
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
Geigy Industrial Chemicals, Ardsley, N. Y.
General Mills, Kankakee, Ill.
Glyco Chemicals Div., 417 5th Ave., N. Y.
Harchem Div., Box 178, Newark, N. J.
Hercules Powder Co., Wilmington, Del.
Hodag Chem. Corp., 7247 N. Central Park Ave., Chicago 45
Intex Chem. Corp., 167 Main St., Lodi, N. J.
Jefferson Chem. Co., 1121 Walker Ave., Houston, Tex.
Kessler Chem. Co., State Rd., Phila. 35
Klix Chem. Co., 551 Railroad Ave., S. San Francisco
Marchon Prods. Ltd., Whitehaven, Cumberland, England
M. Michel & Co., 90 Broad St., N. Y.
Miranol Chem. Co., 277 Coit St., Irvington, N. J.
Mona Industries, 65 E. 23rd St., Paterson, N. J.
Monsanto Chemical Co., St. Louis 24, Mo.
Nalco Chem. Co., 6215 W. 66 Pl., Chicago
National Aniline Div., 40 Rector St., N. Y.
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Olin Mathieson Chem. Corp., 745 5th Ave., N. Y. 22
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Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
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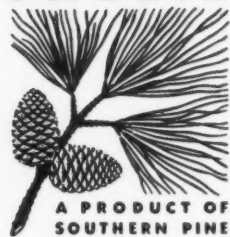
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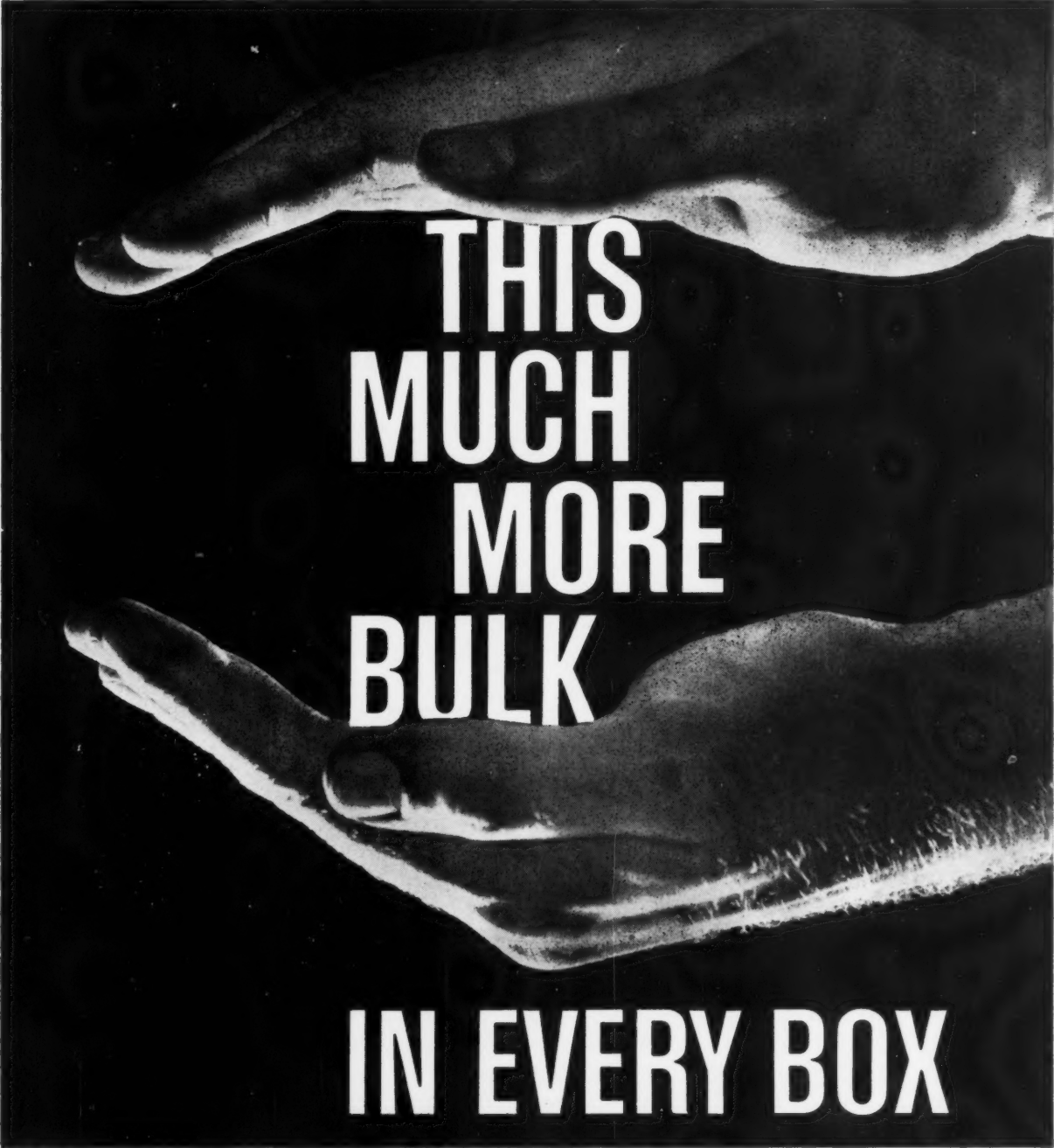


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TOILET PREPARATIONS (Private Label) (see also Bath Salts, Shampoos, etc.)

A.M.R. Chem. Co., 985 E. 35th St., Bklyn.
 Averil, Inc., 6780 NW 37 Ct., Miami, Fla.
 G. Barr & Co., 3601 S. Racine Ave., Chicago
 Continental Filling Corp., 123 N. Hazel Ave., Danville, Ill.
 Curley Co., 1432 N. Randolph St., Phila. 22
 Flam-Haft Laboratories, 8 E. 12th St., N. Y. 3
 R. Gesell, Inc., 200 W. Houston, N. Y.
 Lightfoot Co., 380 Madison Ave., N. Y. C.
 Old Empire, Inc., Mt. Prospect & Verona Ave., Newark, N. J.
 Shores Co., Cedar Rapids, Ia.
 John T. Stanley Co., 642 W. 30th St., N. Y.
 Zenith Drug, Inc., 1 Vesey St., Newark, N. J.

TOILET SOAP BASE (for Cakes)

Armour & Co., 1355 W. 31st St., Chicago
 Duveen Soap Corp., 36-14 35th St., Long Island City 6, N. Y.
 Hewitt Soap Co., 333 Linden Ave., Dayton, O.
 Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
 Los Angeles Soap Co., 617 E. 1st St., Los Angeles, Calif.
 Peck's Products, 610 E. Clarence Ave., St. Louis
 Procter & Gamble Dist. Co., Cincinnati
 Schmidt Soap Products Co., 236 W. North Ave., Chicago
 Standard Soap Co., 805 S. 2nd St., Camden, N. J.
 John T. Stanley Co., 642 W. 30th St., N. Y.
 Swift & Co., Chicago 9

TOILET SOAPS, CAKE (Private Label)

Armour & Co., 1355 W. 31st St., Chicago
 Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
 Colgate-Palmolive Co., 300 Park Ave., N. Y. 22
 Duveen Soap Corp., 36-14 35th St., Long Island City, N. Y.
 Haag Labs., Inc., 14000 S. Seeley Ave., Blue Island, Ill.
 Hewitt Soap Co., 333 Linden Ave., Dayton, O.
 Kamen Soap Prods. Co., 5-22 50 Ave., L. I. C. 1, N. Y.
 Lever Bros. Co., 390 Park Ave., N. Y.
 Long Island Soap Co., 29 Bridgewater St., Brooklyn
 Lightfoot Co., 380 Madison Ave., N. Y.
 Los Angeles Soap Co., 617 E. 1st St., Los Angeles, Cal.
 North Coast Soap & Chem. Wks., Seattle, Wash.
 Procter & Gamble Co., Cincinnati
 Purex Corp., 9300 Rayo Ave., South Gate, Calif.
 Schmidt Soap Products Co., 236 W. North Ave., Chicago
 John T. Stanley Co., 642 W. 30th St., N. Y.
 Swift & Co., Chicago

TOOTH PASTE (Private Label)

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 Peterson Filling & Packaging Co., Hegeler Lane, Danville, Ill.
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Central Chem. Co., 49 N. Jonathan St., Hagerstown, Md.
Chapman Chem. Co., 38 Court St., Memphis, Tenn.
Chem. Insecticide Corp., 30 Whitman Ave., Mutchen, N. J.
Chipman Chem. Co., Bound Brook, N. J.
William Cooper & Nephews, 1909 Clifton St., Chicago
Douglas Chem. Co., 620 E. 16th Ave., North Kansas City, Mo.
Durham Chem. Co., 4124 E. Pacific Way, Los Angeles
Eastern States Pet. & Chem. Corp., Houston 12, Tex.
Flag Sulphur & Chem. Co., Tampa, Fla.
Florida Agricultural Supply Co., Box 658, Jacksonville, Fla.
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General Chemical Div., 40 Rector St., N. Y.
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Georgia-Carolina Oil Co., 1403 Sixth St., Macon, Ga.
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Kwik-Way Chem. Co., Box 2536, San Antonio, Texas
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Niagara Sprayer & Chem. Div., Middleport, N. Y.
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Plainsman Supply Co., Plainview, Texas
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1
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Ralston Purina Co., 835 S. 8th St., St. Louis
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Chicago Sanitary Prods., 3100 S. Throop St., Chicago 8
Continental Oil Co., 1270 Ave. of Americas, N. Y. 20
Davies-Young Soap Co., Dayton, O.
Dominion Prods., Inc., 10-40 44 Dr., Long Island City
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
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James Good, Inc., 2107 S. Susuehanna Ave., Phila.
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Kranich Soap Co., 54 Richards St., Bklyn.
Old Empire Inc., Mt. Prospect & Verona, Newark, N. J.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis

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M. Michel & Co., 90 Broad St., N. Y. 4
National Aniline Div., 40 Rector St., N. Y.
Finetex, Inc., 418 Falmouth Ave., East Paterson, N. J.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey City, N. J.
Pilot Chemical Co. of Cal., 215 W. 7th St., Los Angeles, Calif.
Process Chems. Co., 8733 S. Dice Rd., Los Nietos, Calif.
Sole Chem. Corp., 7740 S. Chicago Ave., Chicago
Sonneborn Chem. & Refining Co., 300 4th Ave., N. Y. 10
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Texaco, Inc., 135 E. 42nd St., N. Y.

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Monsanto Chemical Co., St. Louis 24, Mo.
Stauffer Chem. Co., 380 Madison Ave., N. Y.
Jos. Turner & Co., Ridgely, N. J.
Victor Chemical Works, 155 N. Wacker Dr., Chicago 6
Virginia-Carolina Chemical Corp., Richmond, Va.
Welch, Holme & Clark Co., 1 Hudson St., N. Y. 13
Westvaco Mineral Prods. Div., 161 E. 42nd St., N. Y.

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Art Tube Co., Irvington, N. J.
Bradley-Sun Division, 181 Long Ave., Hillside, N. J.
Walter Frank Organization, 4100 Warren Ave., Hillside, Ill.
National Collapsible Tube Co., Providence, R. I.
Peerless Tube Co., 58 Locust Ave., Bloomfield, N. J.
Sheffield Tube Co., New London, Conn.
Wheeling Stamping Co., 2116 Water St., Wheeling, W. Va.
White Metal Mfg. Co., 1012 Grand St., Hoboken, N. J.
A. H. Wirz, Inc., 2316 W. Townsend St., Chester, Pa.

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American Can Co., 100 Park Ave., N. Y.
Anchor Plastics Co., 36-36 36 St., Long Island City, N. Y.
Lusteroid Container Co., So. Orange, N. J.
Hydrawlik Co., 131 E. 1st Ave., Roselle, N. J.
Hygienic Tube Co., Newark, N. J.
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Continental Turp. & Rosin Corp., Laurel, Miss.



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WAX	Melting °C	Point °F	Acid Value	Saponifi- cation Value	Unsaponi- fiable matter	Color
ACID WAXES						
S	80- 83	176-182	140-155	160-180	7-10%	light yellowish
L	80- 83	176-182	125-145	150-170	7-10%	dark yellow
LP	81- 84	178-183	100-120	130-150	7-10%	yellowish
ESTER WAXES						
E	78- 82	172-180	15- 20	145-165	7-10%	light yellowish
CR	82- 85	180-185	30- 35	110-125	12-16%	brown-black
KPS	80- 83	176-182	20- 30	135-150	12-14%	yellowish
KSS	78- 83	172-182	25- 35	120-135	21-24%	yellowish
BJ Unbleached	70- 73	158-163	17- 25	135-150	22-25%	light yellowish
BJ Bleached	70- 73	158-163	65- 85	155-170	21-23%	light yellowish
F	74- 77	165-170	6- 10	95-105	42-47%	light yellowish
KP	80- 83	176-182	20- 30	135-150	12-14%	brown
OP	102-106	215-223	10- 15	105-120	7-10%	beige
O	102-106	215-223	10- 15	105-120	7-10%	beige
OM	93- 98	199-209	17- 22	105-120	7-10%	beige
FL	95-100	203-212	30- 37	90-105	18-23%	light brown
SPECIAL	96-100	205-212	13- 18	90-105	20-22%	brown-black
OTHER WAXES						
H	81- 82	178-180	2- 9	170-185	5-10%	whitish
W	57- 60	134-140	0- 1	5- 25	85-90%	whitish,, transparent
V	48- 50	118-122	0-	0	100	off-white
EMULSIFIERS						
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Georgia Rosin Prods. Co., Brunswick, Ga.
Glidden Co., Jacksonville, Fla.
Hercules Powder Co., Wilmington, Del.
Newport Industries Co., 342 Madison Ave., N. Y. 17
Phoenix Naval Stores Co., Gulfport, Miss. (wood)
West Virginia Pulp & Paper Co., 230 Park Ave., N. Y. 17

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UBS Chem. Corp., 491 Main St., Cambridge, Mass.

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Emhart Mfg. Co., Portland, Conn.
FMC Packaging Machy. Div., 4972 Summerdale Ave., Phila., Pa.
Horix Mfg. Co., 2609 Chartiers Ave., Pittsburgh 4
Island Equipment Corp., 1090 E. 31st St., Hialeah, Fla.
Kartridg Pak Co., 9151 W. Fullerton Ave., Franklin Park, Ill.
Laub Engineering Co., 244 N. San Marino Ave., San Gabriel, Calif.
M. R. M. Co., 191 Berry St., Bklyn.
Pneumatic Scale Corp., Quincy, Mass.
U. S. Bottlers Machy. Co., 4019 N. Rockwell St., Chicago
Weigh Right Auto. Scale Co., Mills Rd., Joliet, Ill.

UREA

American-British Chem. Supplies, 180 Madison Ave., N. Y. 16
E. I. du Pont de Nemours & Co., Wilmington, Del.
Hercules Powder Co., Wilmington, Del.
General Chem. Div., 40 Rector St., N. Y. 6
Grace Chemical Co., 3 Hanover Sq., N. Y.
Nitrogen Div., 40 Rector St., N. Y.

USED MACHINERY AND EQUIPMENT

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Brill Equipment Co., 35 Jabez St., Newark 5, N. J.
Chemical Equipment Corp., 2401 Third Ave., N. Y.
Chemical & Process Machy. Corp., 52 9th St., Bklyn.
Emsco Equipment Co., 39 Hyatt Ave., Newark, N. J.
First Machy. Corp., 209 10th St., Bklyn.
Wm. T. Hand Equipment Co., Manhasset, N. Y.
Houchin Division, 300 Straight St., Paterson, N. J.
Jasper Machy Co., 282 Sixth St., Bklyn. 15
Loeb Equipment Supply Co., 810 W. Superior Ave., Chicago
Newman Tallow & Soap Machy. Co., 3601 S. Iron St., Chicago
Perry Equipment Corp., 1515 W. Thompson St., Phila. 21, Penna.
Stein Equipment Co., 107-8th St., Bklyn. 15
Union Standard Equipment Co., 318 Lafayette St., N. Y. 12

VANILLIN

Aromatic Products, Inc., 235 4th Ave., N. Y.
Dodge & Olcott Inc., 180 Varick St., N. Y.
Dow Chemical Co., Midland, Mich.
P. R. Dreyer, Inc., 601 W. 26th St., N. Y.
Felton Chemical Co., 603 Johnson Ave., Brooklyn, New York
Florasynth Laboratories, 900 Van Nest Ave., N. Y.
Fritzsche Bros., 76—9th Ave., N. Y. 11
Givaudan-Delawanna, Inc., 321 W. 44th St., N. Y.
Geo. Lueders & Co., 427 Washington St., N. Y. 13
Magnus, Mabey & Reynard, 16 Desbrosses St., N. Y.
Monsanto Chemical Co., St. Louis 24, Mo.
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.
Orbis Prods. Corp., 601 W. 26th St., N. Y. 1
S. B. Penick & Co., 100 Church St., N. Y. 8
Riches-Nelson, Inc., 342 Madison Ave., N. Y.
Robeco Chemicals, Inc., 25 E. 26 St., N. Y. 10
Schimmel & Co., 601 W. 26th St., N. Y. 1
Shulton, Inc., 630 5th Ave., N. Y.
Stepan Chemical Co., 427 W. Randolph St., Chicago
Sterwin Chemicals, Inc., 1450 Broadway, N. Y. 18, N. Y.
Ungerer & Co., 161 Ave. of Americas, N. Y. 13
Verona Aromatics, 26 Verona Ave., Newark 4, N. J.

VAPORIZERS (Insecticide, Deodorizing, Perfuming, etc.) (see also Sprayers and Atomizers)

Allied Block Chemical Co., 428 Bingham St., Pittsburgh 3, Pa.
Evans-Crowder Co., South Lyon, Mich.
Gallo Co., 1312 Forest St., Racine, Wisc.
Hub States Chems. & Equipment, 1255 N. Windsor St., Indianapolis
Hysan Prods. Co., 930 W. 38th Place, Chicago 9
Keystone Scent Conditioner Corp., 315 N. 12th St., Philadelphia 7
Star Porcelain Co., 33 Muirhead Ave., Trenton, N. J.
Universal Electric Prods., 2201 Regent St., Madison 5, Wis.

WARFARIN

S. B. Penick & Co., 100 Church St., N. Y. 8
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1

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California Spray-Chemical Corp., Richmond, Calif.
Chase Products Co., 20th St. & Gardner Rd., Broadview, Ill.
Chem. Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Chemical Service of Baltimore, Howard & West Sts., Balto.
Geigy Agric. Chems., Ardsley, N. Y.
Hopkins Ag. Chemical Co., Madison, Wisc.
Hub States Chems. & Equipment, 1255 N. Windsor St., Indianapolis
Hysan Products Co., 930 W. 38th Pl., Chicago
S. B. Penick & Co., 100 Church St., N. Y. 8
Prentiss Drug & Chem. Co., 101 W. 31st St., N. Y. 1
Private Brands, Inc., 300 S. 3rd St., Kansas City, Kan.
Puro Co., 2801 Locust St., St. Louis 3
Residex Corp., 1500 W. Elizabeth Ave., Linden, N. J.
Sennewald Drug Co., 2721 Chouteau Ave., St. Louis
Uncle Sam Chemical Co., 573 W. 131st St., N. Y.
U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago
Warsaw Chem. Co., Warsaw, Ind.

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Belco Ind. Equipment Co., 51 Iowa Ave., Paterson, N. J.
Illinois Water Treatment Co., 840 Cedar St., Rockford, Ill.
Permutit Co., 330 W. 42nd St., N. Y.
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WATER SOFTENERS

Amer. Agricultural Chem. Co., 100 Church St., N. Y.
Antara Chemicals Div., 435 Hudson St., N. Y. 14
Blockson Chemical Co., Joliet, Ill.
Columbia-Southern Chem. Corp., Pittsburgh
Dow Chem. Co., Midland, Mich.
Emkay Chem. Co., 319 2nd St., Elizabeth, N. J.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Geigy Industrial Chemicals, Ardsley, N. Y.
General Chemical Div., 40 Rector St., N. Y.
Haag Labs., 14000 Seeley Ave., Blue Island, Ill.
Hampshire Chem. Corp., Nashua, N. H.
Illinois Water Treatment Co., 840 Cedar St., Rockford, Ill.
Miranol Chem. Co., 277 Coit St., Irvington, N. J.
Mona Industries, 65 E. 23rd St., Paterson, N. J.
Monsanto Chemical Co., St. Louis 24, Mo.
Nalco Chem. Co., 6216 W. 66th Pl., Chicago
Refined Products Corp., 624 Schuyler Ave., Lyndhurst, N. J.
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Rumford Chemical Wks., Rumford, R. I.
Solvay Process Div., 61 Broadway, N. Y.
Tex-ite Prods. Corp., 859 E. 43rd St., Brooklyn 10
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Westvaco Mineral Prods. Div., 161 E. 42nd St., N. Y.
Wyandotte Chemicals Corp., Wyandotte, Mich.

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WAX APPLICATORS (see Applicators for Floor Wax)

WAXES (Carnauba, Candelilla, Montan, etc. Do not confuse with floor wax)

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to start...

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BARECO WAX	MELTING POINT °F.	PENE- TRATION	COLOR N. P. A.	ACID NUMBER	SAPON- IFICATION NUMBER
Petrolite C-700	190 Min.	4 Max.	1½ Max.	Nil	Nil
B-Square 190 A	190-195	2-7	1½ Max.	Nil	Nil
Petrolite C-1035	195 Min.	3 Max.	1½ Max.	Nil	Nil
Petronauba C	180 Min.	7 Max.	3 Max.	22-28	50-60
Petronauba D	185 Min.	5 Max.	6 Max.	20-28	50-60
Petronauba H	195 Min.	1-3	4 Max.	15-25	50-60
Petrolite C-15	180 Min.	4-6	4-5	15-17	45-55
Petrolite C-23	180 Min.	4-6	4-5	20-15	55-65
Petrolite C-36	180 Min.	5-7	4-6	30-35	75-85
Petrolite PE-100	195-200	2-3	4-6	15-20	45-55
Petrolite R-50	190-200	2 Max.	4½ Max.	40-50	65-80
Petrolite P-20	210-220	2 Max.	3 Max.	Nil	Nil
C-6500	190-210	1-3	4 Max.	10-13	30-40
C-7500	195-215	1-3	2 Max.	10-13	25-30

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POL-59-4

**PETROLITE
CORPORATION**



**BARECO WAX COMPANY
DIVISION**

SALES OFFICE: 917 Enterprise Bldg., Tulsa 3, Okla.
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CHICAGO—332 S. Michigan Ave.
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 Biddle Sawyer Corp., 20 Vesey St., N. Y. 7
 Candy & Co., 2515 W. 35th St., Chicago
 Concord Chem. Co., 205 S. 2nd St., Camden, N. J.
 T. G. Cooper & Co., Cedar & Venango Sts., Phila.
 Continental Oil Co., 1270 Ave. of Americas, N. Y.
 Wm. Diehl & Co., 120 E. 56th St., New York 22
 Distributing & Trading Co., 444 Madison Ave., N. Y.
 Dura Commodities Corp., 20 Vesey St., N. Y. 7
 Hostawax Co., 350 5th Ave., N. Y. 1
 Industrial Raw Materials, 575 Madison Ave., N. Y. 22
 International Wax Ref. Co., E. Hawthorne Ave., Valley Stream, N. Y.
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on PAGE 277



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ORIGIN	NAME OF WAX	M.P. A.S.T.M. D-127-30	PENETRATION 100g/77°/ 5 sec.	COLOR N.P.A.	ACID NUMBER	SAPONIFICATION VALVE	TYPE	NAME OF WAX
Synthetic	Cardis Polymer #10	212-216	0-1	1-1½	8-10	25-30	Polymer	Cardis Polymer #10
	Cardis Polymer #8®	205-210	1-2	3-5	7-10	24-28	Polymer	Cardis Polymer #8
	Cardis 935	210-214	2½-3	1-1½	16-18	38-42	Polymer	Cardis 935
	Cardis One®	195-200	1-2	4-5	12-16	45-55	Emulsifiable Petroleum Wax	Cardis One
Petroleum	Cardis 314®	184-189	4-6	4-5	13-16	45-55	Emulsifiable Petroleum Wax	Cardis 314
	Cardis 319®	180-185	5-7	4-6	18-20	65-70	Emulsifiable Petroleum Wax	Cardis 319
	Cardis 320®	180-185	5-7	4-5	28-30	75-80	Emulsifiable Petroleum Wax	Cardis 320
	Cardis 262®	195-200	3-5	Brown	14-17	40-45	Specially Processed Petroleum Wax	Cardis 262
	Polmekon®	195 MIN.	0-3	Yellow	0-0	0-0	Specially Processed Petroleum Wax	Polmekon
	Warco BP 10	300-320	6½	Yellow	0-0	0-0	Specially Processed Petroleum Wax	Warco BP 10
	Fortex®	190-200	3-5	2½-3½	0-0	0-0	Microcrystalline Hard & Plastic	Fortex
	Mekon® Brown	190-195	3-5	Brown-Black	0-0	0-0	Microcrystalline Hard & Brittle	Mekon Brown
	Mekon® Amber	190-195	3-5	Amber 6 Max.	0-0	0-0	Microcrystalline Hard & Brittle	Mekon Amber
	Mekon® Yellow	190-195	3-5	Yellow 3-3½	0-0	0-0	Microcrystalline Hard & Brittle	Mekon Yellow
	Warco® Wax 180 White	180-185	4-7	White	0-0	0-0	Microcrystalline Hard & Brittle	Warco Wax 180 White
	Warco® Wax 180 Brown	180-185	4-7	Brown	0-0	0-0	Microcrystalline Hard & Brittle	Warco Wax 180 Brown
	Warco® Wax 150-A Yellow	155-165	25 Max.	2 Max.	0-0	0-0	Microcrystalline Plastic	Warco Wax 150-A Yellow
	Warco® Wax 150-A Brown	155-165	15-20	Brown	0-0	0-0	Microcrystalline Plastic	Warco Wax 150-A Brown
	Warcosine®	150-160	30 Max.	White	0-0	0-0	Microcrystalline Plastic	Warcosine
Paraffin			ALL GRADES				Crystalline	Paraffin
Vegetable	Cane Wax 500	170-176	2 Max.	Tan	26-32	75-95	Vegetable Wax	Cane Wax 500
	Cane Wax 511	176-180	2 Max.	Brown	62-68	130-140	Vegetable Wax	Cane Wax 511
	Cane Wax 517-711	176-180	2 Max.	Black	11-14	75-85	Vegetable Wax	Cane Wax 517-711
	Cane Wax 700	171-177	2 Max.	Light Brown	26-32	70-90	Vegetable Wax	Cane Wax 700

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	ACID NUMBER	SAPONIFICATION VALVE	TYPE	NAME OF WAX	SLABS 20,00
	8-10	25-30	Polymer	Cardis Polymer #10	
	7-10	24-28	Polymer	Cardis Polymer #8	
	16-18	38-42	Polymer	Cardis 935	
	12-16	45-55	Emulsifiable Petroleum Wax	Cardis One	
	13-16	45-55	Emulsifiable Petroleum Wax	Cardis 314	
	18-20	65-70	Emulsifiable Petroleum Wax	Cardis 319	
	28-30	75-80	Emulsifiable Petroleum Wax	Cardis 320	
	14-17	40-45	Specially Processed Petroleum Wax	Cardis 262	
	0-0	0-0	Specially Processed Petroleum Wax	Polmekon	
	0-0	0-0	Specially Processed Petroleum Wax	Warco BP 10	
	0-0	0-0	Microcrystalline Hard & Plastic	Fortex	
ack	0-0	0-0	Microcrystalline Hard & Brittle	Mekon Brown	
Max.	0-0	0-0	Microcrystalline Hard & Brittle	Mekon Amber	
3½	0-0	0-0	Microcrystalline Hard & Brittle	Mekon Yellow	
	0-0	0-0	Microcrystalline Hard & Brittle	Warco Wax 180 White	
	0-0	0-0	Microcrystalline Hard & Brittle	Warco Wax 180 Brown	
	0-0	0-0	Microcrystalline Plastic	Warco Wax 150-A Yellow	
	0-0	0-0	Microcrystalline Plastic	Warco Wax 150-A Brown	
	0-0	0-0	Microcrystalline Plastic	Warcosine	
ES			Crystalline	Paraffin	CURF
	26-32	75-95	Vegetable Wax	Cane Wax 500	
	62-68	130-140	Vegetable Wax	Cane Wax 511	
	11-14	75-85	Vegetable Wax	Cane Wax 517-711	
wn	26-32	70-90	Vegetable Wax	Cane Wax 700	

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	47.50	48.00	48.50	" "	" "	
	34.00	34.50	35.00	" "	" "	
	34.00	34.50	35.00	" "	" "	
	34.00	34.50	35.00	" "	" "	
	43.00	43.50	44.00	" "	" "	
	42.50	43.00	43.50	" "	" "	
	47.50	48.00	48.50	" "	Wax Packed in Three 20 lb. Slabs to the Carton Approx. 80 lbs. Net	
	27.00	27.50	28.00	" "	Wax Packed in Five 10 lb. Slabs to the Carton Approx. 50 lbs. Net	
	18.00	18.50	19.00	" "	" "	
	19.00	19.50	20.00	" "	" "	
	20.00	20.50	21.00	" "	" "	
	20.00	20.50	21.00	" "	Wax Packed in Five 11 lb. Slabs to the Carton Approx. 55 lbs. Net	
	19.00	19.50	20.00	" "	" "	
w	10.15	10.85	11.85	Coffeyville, Kansas	Wax Packed in Five 10 lb. Slabs to the Carton Approx. 50 lbs. Net	
n	9.15	9.85	10.85	" "	" "	
	15.00	15.50	16.00	" "	" "	
CURRENT MARKET QUOTATIONS ON REQUEST				" "	" "	
		70.00	72.00	Gramercy, La.	Wax Packed in Cartons 80 to 95 lbs. Net 7 Slabs to the Carton	
		75.00	77.00	" "	" "	
		60.00	62.00	" "	" "	
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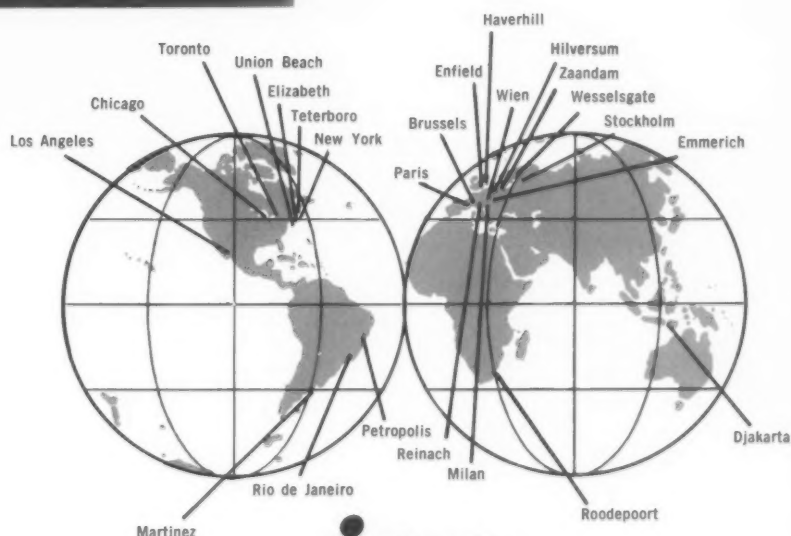


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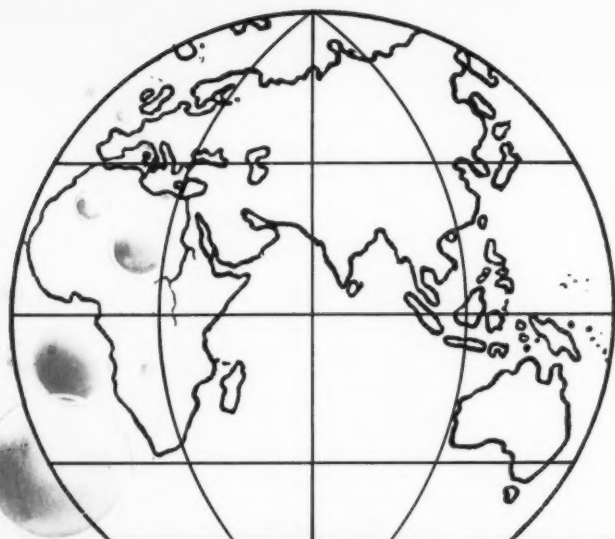
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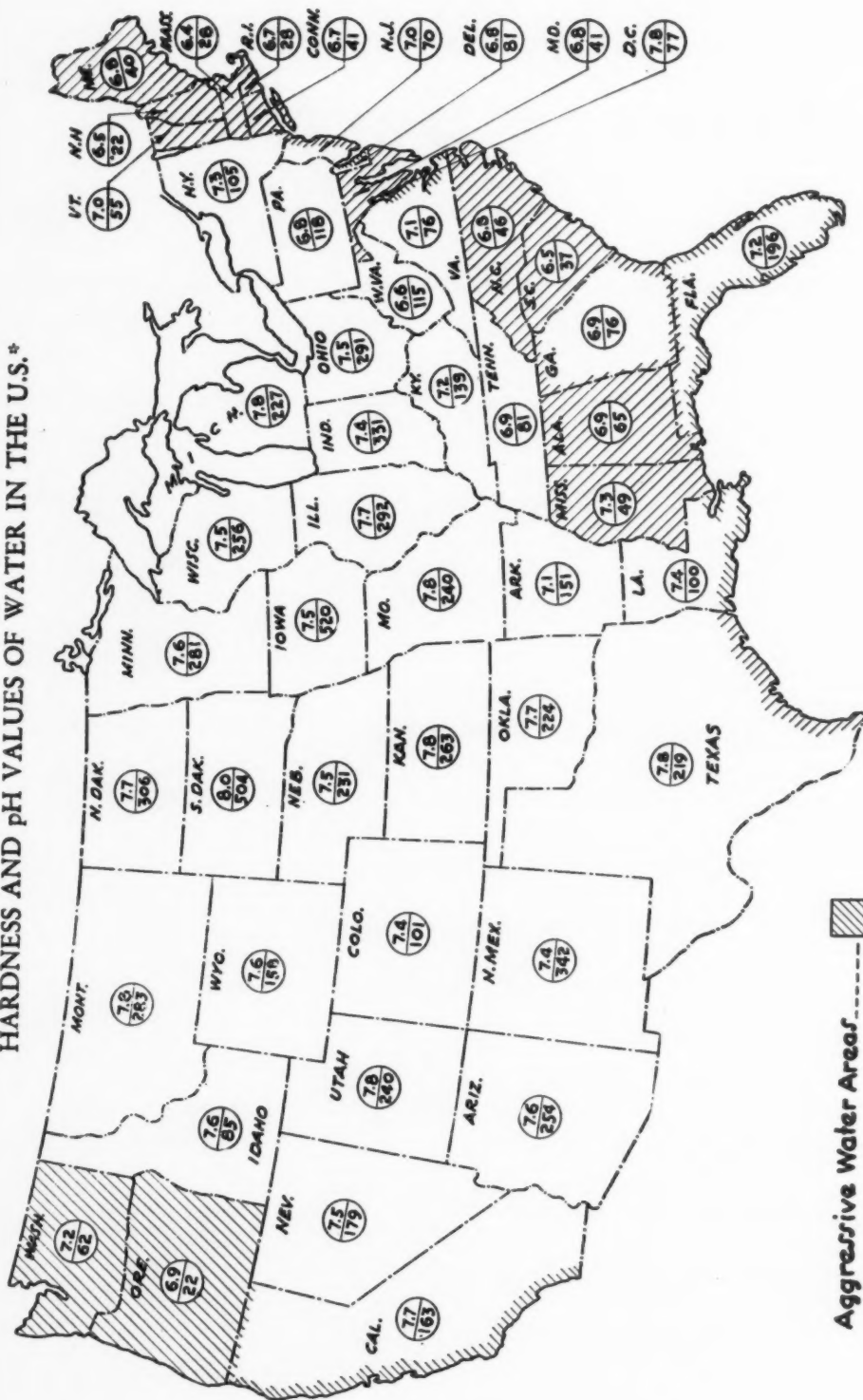
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HARDNESS AND pH VALUES OF WATER IN THE U.S.*



Aggressive Water Areas

pH Value

Hardness As Ca Co₃

pH Values:- Below 7 acid

7 neutral

Above 7 alkaline

Hardness:- Below 60 ppm. aggressive water

61-120 " soft

121-180 " hard

Above 180 " very hard

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COCKROACH SPRAY TEST METHOD

Official Method of the Chemical Specialties Manufacturers Association For Evaluating Cockroach Sprays

THE National Association of Insecticide & Disinfectant Manufacturers* sponsored a fellowship at the Ohio State University from 1937 to 1942 for the study of testing methods suitable for evaluating liquid household insecticides against crawling insects. This project was directed by Prof. F. L. Campbell and employed as investigators at various times were E. N. Woodbury, C. S. Barnhart, E. H. Glass, and J. M. Hutsel. Results of these studies have been summarized in various published articles^{1,2,3} and much valuable information was obtained on both rearing and test methods. In spite of the fact that a number of test methods were devised and employed on both bedbugs and cockroaches, none of the methods received widespread official recognition. In 1943 Henderson reported on a liquid cockroach spray testing method being employed by the Production and Marketing Administration of the U.S. Department of Agriculture. From 1943 to 1946 crawling insect test method studies were conducted with CSMA (then NAIDM) support by F. O. Hazard, Wilmington College, Wilmington, Ohio, with special emphasis on the study of the Henderson method. Both liquid and powder methods for cockroach testing have been published by Hazard^{5,6}, and L. J. Bottimer⁷ on the current method used by the Insecticide Division Livestock Branch, Production and Marketing Administration, United States Department of Agriculture, for the testing of liquid cockroach sprays.

The method here described is a composite of the Bottimer and Hazard method with certain modifications developed through cooperative tests between various laboratories of the CSMA (then NAIDM), and is thought to offer a satisfactory means of determining the relative efficiency of contact insecticides in oils as cockroach sprays. As a biological test it is subject to variations that accompany the reaction of living organisms and should be employed under the supervision of a person familiar with the biological testing of insecticides. In order to measure with reasonable tolerance the relative effectiveness of different insecticides, the test is run in conjunction with the Official Test Insecticide, which is designated as the basis of comparison.

II. APPARATUS

A—Reference Insecticide. The ref-

*Known as the Chemical Specialties Manufacturers Association since 1950.

erence insecticide shall be the current Official Test Insecticide (100 mg. pyrethrins/100 ml. de-odorized insecticide base oil) prepared by the Chemical Specialties Manufacturers Association, Inc. every two years. The OTI must not be diluted or changed in any manner.

B—Test Insect. The test insects shall be healthy, normal undeformed adult males of the German cockroach *Blattella germanica* (Linn.). Recently emerged adult males, e.g., whose pigmentation is not dark, shall not be used for testing purposes. It is recommended that the adult stage shall have been attained at least three days prior to testing.

C—Rearing Room. This room may be of any convenient size, constructed so as to be free from strong drafts and maintained at a temperature of 75 to 85°F. and a relative humidity of 30 to 50 per cent. It should be separate from the testing room in order to eliminate the possibility of traces of insecticide coming in contact with the test insects. Ventilation should be provided to reduce odor.

D—Testing Room. This room may be of any convenient size permitting adequate space for the operator to handle the test efficiently. While tests are being conducted this room shall be maintained at a temperature of 78 to 82°F. It is suggested that relative humidity be held between 30 and 50 per cent.

E—Spray Chamber. The spray chamber shall be a box-like structure of solid material measuring 18 inches wide, 18 inches long and 25 to 30 inches in height. The floor of the chamber shall be covered with ½ inch mesh wire hardware cloth. Suitable guides shall be fastened to the chamber floor to permit the centering of the treatment container directly beneath the nozzle of the spray gun. The top of the chamber shall be open and fitted with suitable braces and mounting for the spray atomizer. The front wall of the chamber may be in the form of a sliding door permitting convenient access to the interior of the chamber. The chamber shall rest on a stand placing it at the proper height for convenient operation of the test.

F—Atomizer. The atomizer to be employed is the DeVilbiss Special No. 5004, which is the same atomizer specified for the Peet-Grady Test. This atomizer shall be operated with air free of oil, dust particles, or condensed moisture,

and maintained at a constant pressure of 6.0 plus or minus 0.5 lbs. per sq. in. The atomizer when operated at a pressure of 12.5 plus or minus 0.5 lbs. per sq. in. shall deliver 12 ml. of OTI in 24 seconds (tolerance plus or minus 1 second) and this should be checked frequently. The atomizer shall be firmly mounted in a manner to permit adjustment and shall be arranged with the barrel in a verticle position and centered with the nozzle tip 28 inches above the bottom of the treatment container which rests on the chamber floor. The intake tube of the atomizer shall be bent at a right angle, adjusted with the open end pointing toward the floor and of sufficient length to permit the spray vials to be held in place without interfering with the spray cone.

G—Treatment Container. The treatment container shall be a screen bottomed container 3½ inches in diameter with 3 inch side walls. Sixteen mesh wire screen shall be soldered in place to form the bottom of the container in such a manner that the entire bottom is completely open. Ordinary tin cups of the proper dimensions with handles removed and the solid bottoms replaced by wire screening have been found useful as test containers.

H—Recovery Dishes. Glass crystallizing dishes measuring 125 millimeters in diameter and 65 millimeters high shall be employed as recovery cages. The bottoms of the recovery dishes shall not be covered with filter paper or other material. Sixteen mesh wire screen covers may be employed as recovery dish covers during the 48-hour holding period following spray application in order to prevent the entry of wild cockroaches.

III. PROCEDURE

A—Rearing of Test Insects. Any suitable method permitting the production of large numbers of the test insect under controlled conditions of temperature and humidity as previously described may be employed. The rearing technique described by Woodbury and Barnhart², which makes use of a brood chamber containing adult females from which large number of first instar nymphs may be collected at frequent intervals, has been successfully used in a number of laboratories. All molded food, dead females and empty egg cases should be removed weekly. Wild cockroaches shall not be used and all test

insects shall have been reared under uniform conditions.

B—Food. Until the time of testing, the cockroaches shall be provided at all times with food and water. The standard food shall be Dog Chow Checkers, manufactured by the Ralston Purina Co., St. Louis, Missouri, or equivalent.

C—Test Procedure. Adult male cockroaches shall be isolated in recovery dishes or other suitable containers from the cultures in groups of 20 by means of a suction device, by anesthetizing them with carbon dioxide gas or any other suitable method which does not injure them. In selecting the test insects every effort shall be made to obtain uniform test groups.

Air shall pass continuously through the atomizer at the prescribed pressure during the entire series of tests. Prior to application of test samples, the gun shall be thoroughly cleaned with a suitable solvent such as acetone and shall be primed with the spray solution to be applied. Spraying of individual test groups shall be effected by bringing an accurately measured amount of the test spray contained in a vial in contact with the atomizer intake tube.

Immediately before spray application the cockroaches shall be transferred to screen-bottomed treatment containers. These containers shall be free from all traces of insecticides and shall have the entire inner wall surface suitably oiled or greased to prevent the escape of the insects and to confine them to the container floor. The treatment container shall be centered on the spray chamber floor directly below the atomizer nozzle and the spray applied as described above. Prior to spray application the treatment container shall be agitated sufficiently to distribute the test insects uniformly over the container floor. The treatment container shall be removed from the spray chamber 30 seconds after the start of spray application. The test insect shall be immediately transferred from the treatment container to the recovery dish. Treated cockroaches shall be held under rearing room conditions throughout the 48-hour observation period and shall receive neither food nor water.

In evaluating a test sample a minimum of 10 individual test groups shall be run for the test spray in conjunction with 10 test groups receiving the OTI. An equal number of replicates shall be made for members of any given test series on a given test day. The dosage employed shall be the same throughout a given series of tests and of such magnitude as to result in an average of 70 per cent to 90 per cent of the insects dead and moribund at 48 hours with the OTI. Cooperative tests among CSMA laboratories have shown the required dosage to be 0.5 to 0.9 ml.

D—Assembly and Evaluation of Data. Evaluation of test samples shall be made on the basis of observations

taken 48 hours after spray application, at which time the percentage of test insects normal, moribund, and dead shall be determined. Any insect showing signs of life but incapable of locomotion shall be considered as moribund. Similar records taken at 24 hours or at intervals longer than 48 hours may be of interest in critical studies. It is recommended that if the test insects are to be held under observation longer than 48 hours they be furnished food and water at the end of the initial 48 hour observation period. Insects that withstand insecticide treatments shall be destroyed and in no case returned to the stock cultures or employed in further tests. In cases of semi-concentrate sprays or sprays of especially high toxicity to cockroaches they shall be tested by the above method as recommended by the manufacturer. For example, if a manufacturer claims his product to be three times as effective as the standard (OTI), the spray shall be diluted at the rate of one part of the spray with two parts deodorized insecticide base oil by volume prior to testing. The basis of comparison shall be the average percentage dead and moribund of the test sample as compared with that of the OTI. In reporting the test results the test sample shall be reported as "meeting the standard" if its average percentage dead and moribund determination at 48 hours is equal to, greater than, or within 5 percentage points less than that of the OTI employed in conjunction with it. In no case shall actual numerical values be reported officially or any letter grade designations be assigned to the test samples as a measurement of their effectiveness against cockroaches. The accompanying table records the results of a typical series.

IV. CONDITIONS FOR OFFICIAL EVALUATION

A—The test shall be conducted in accordance with the procedure previously described.

B—Twenty test groups of insects, numbering 20 cockroaches each (10 test sample, 10 OTI) shall be employed in making official evaluation.

C—The dosage shall be constant throughout a given series of tests and of such magnitude as to give an average of from 70 to 90 per cent of the OTI treated cockroaches dead and moribund 48 hours after spray application.

D—The toxicity of the unknown sample shall be reported as meeting the standard if its average percentage dead and moribund determination at 48 hours is equal to, greater than, or within 5 percentage points less than that of the OTI run in conjunction with it. In cases of semi-concentrate sprays or sprays of especially high toxicity to cockroaches, they shall be tested as recommended by the manufacturer. In no case shall numerical values be reported or any letter grade designations be assigned to the test samples as a measurement of their toxicity to cockroaches.

References

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- (6) Hazard, F. O., 1945—Modifications of the Liquid Roach Method—Soap and Sanitary Chemicals, Vol. 21, No. 12, pp. 159, 167.
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EXAMPLE OF TEST DATA

0.7 ml. Dosage by CSMA Roach Test Method

Per Cent Dead and Moribund 48 Hours

<i>Test</i>	<i>Date</i>	<i>OTI</i>	<i>Spray A</i>	<i>Spray B</i>	<i>Spray C</i>
1	5/13/46	90	85	100	100
2	5/13/46	85	75	45	90
3	5/13/46	30	50	55	100
4	5/13/46	65	70	40	100
5	5/13/46	100	85	65	100
6	5/13/46	75	75	85	95
7	5/16/46	80	85	35	100
8	5/16/46	65	70	65	100
9	5/16/46	95	90	30	95
10	5/16/46	80	45	60	100
Average		76.5	73.0	58.0	98.0

Reported as follows: Spray A—Meets Standard; Spray B—Does not meet Standard; Spray C—Meets Standard.

THE PEET-GRADY METHOD

Official Method of the Chemical Specialties Manufacturers Association* for Evaluating Liquid Household Insecticides, Latest Revision

THE Peet-Grady Method was adopted as an official test in 1932, and has since been improved in certain details, all improvements have been officially accepted after thorough investigation by the CSMA Insecticide Scientific Committee. Inquiries regarding the method should be addressed to the chairman of this Committee. This method of test is a means of determining the relative efficiency of contact insecticides dissolved in fly spray base oils suitable for household and industrial use. The method does not apply to cattle sprays having viscosities materially higher than those of fly spray base oils. As a biological test it is subject to variations which accompany the reaction of living organisms and should be employed under the supervision of a person familiar with the biological testing of insecticides. In order to measure with reasonable tolerance the relative effectiveness of different insecticides, the test is designed to be used in conjunction with the "Official Test Insecticide" as the basis of comparison.

Two methods, or procedures, are permitted. The small group method is substantially the same as outlined at the time the test was adopted in 1932 while the large group method was adopted officially in 1938. Both methods are being used extensively, and if correctly employed, evaluation by either test may be expected to be in reasonable agreement.

II. APPARATUS

A. Reference Insecticide: The reference insecticide shall be the current Official Test Insecticide (OTI) prepared and sold by the CSMA, 50 E. 42nd Street, New York 17, New York. The OTI is carefully standardized by both biological and chemical analysis and it must not be diluted or changed in any manner. References to the OTI (other than in this presentation) should identify the OTI by date.

B. Atomizer: The Special Atomizer No. 5004, constructed by the DeVilbiss Co., Toledo, O., must be used, preferably with the DeVilbiss No. 631 cut off. This atomizer shall be operated with air free of contaminants and maintained at a constant pressure of 12.5 ± 0.5 pounds per sq. in. measured by a gage of not more than 30 pounds capacity or a manometer. The atomizer shall deliver 12 cc. of OTI in 24 seconds (tolerance ± 1 second) and this should be checked frequently. Atomizers failing to meet this test should be

repaired by the manufacturer or replaced.

C. Test Insect: The test insect shall be the adult house fly (*Musca domestica* L.) reared from a strain mixed under the supervision of the CSMA. Flies in test groups shall be not less than 3 nor more than 6 days old at the time of testing, and must meet the Conditions for Official Evaluation, Section IV.

D. Fly Cages: Cages of any convenient type may be used if they provide at least 1 cubic inch of space per fly and at least 2 sides and the top are screened. The floor of the cage preferably is detachable, to facilitate cleaning and inserting a paper floor covering. The cages are constructed of wood or other suitable material and fly wire screening, and are fitted with a sleeve opening, rubber membrane, or a door.

E. Rearing Room: This room may be of any convenient size constructed so as to be free from strong drafts, and maintained at a temperature of 82 ± 2 degrees Fahrenheit and relative humidity of 50 ± 5 per cent. It should be separate from the testing room in order to eliminate the possibility of traces of insecticide coming in contact with the test insects. Ventilation should be provided to reduce odors and gases from fermenting media.

F. Testing Room: This room may be of any convenient size capable of holding the standard Peet-Grady Chamber and permitting adequate additional space for the operator to handle the test efficiently. While conducting tests, this room shall be maintained at a temperature of 75 to 85 degrees Fahrenheit. It is suggested that relative humidity be held between 40 and 70 per cent. Since the exhaust fan of the chamber will move relatively large quantities of air, the temperature of the air entering this room should be approximately that specified above.

G. Peet-Grady Test Chamber: The Test Chamber shall be rigidly constructed of wood, metal, or other suitable material. The inner surface shall be smooth, impervious to the usual household type of insecticide, and as free from cracks, projections, ledges, etc., as possible. The chamber shall be a 6-ft. cube by internal measurements, with a tolerance of plus or minus 1 in. for any dimension. One wall shall contain a tight-fitting door large enough for a man to enter conveniently, with the interior side flush with the wall when closed. One or more of

the walls, or the ceiling, shall contain an observation window, preferably on two opposite walls. Illumination is provided by means of a glass window in the ceiling, above which is placed an electric light of such intensity as to permit flies to be observed easily. An opening covered with 10 or 12-mesh wire screen shall be connected to an exhaust fan duct and the size and the location of this opening in relation to ventilation openings in the wall must be such that thorough ventilation of the chamber is obtained. Preferably, the exhaust opening should be 1 sq. ft. or larger and located in or near the ceiling. Air inlet openings may be ports approximately 6 x 6 in. in size, covered with screen on the inside and provided with tight fitting hinged covers on the outside. Four ports located near the 4 lower corners, or 8 ports located near both the 4 upper and 4 lower corners are satisfactory, but the ventilation ports should not be on the same level as the exhaust port. The entrance door may be used alone or in conjunction with the ventilation ports if a screen door is provided and thorough ventilation of the chamber is obtained. If the temperature of the air used to ventilate the chamber is lower than 80°F., heaters may be used to obtain the temperature of 82 ± 2 °F. required during the test period. Such heaters must be removed before a test is started. Openings shall be provided for the introduction of the insecticide; these must be so constructed and so located that uniform distribution of the spray is effected without undue ventilation of the chamber. These openings may be round 1 in. holes located not less than 6 in. or more than 12 in. from the ceiling and 18 in. from the nearest corner on each wall, or a single hole may be provided in the center of each wall 6 to 12 inches from ceiling.

H. Exhaust Fan: An exhaust fan moving not less than 1,000 cu. ft. of air through the chamber per min. shall be used to ventilate the chamber after each test. It shall be arranged with adequate piping to exhaust the chamber vapors outside of the building.

I. Insecticide Paper: Unsized, non-glazed absorbent paper, such as brown kraft or gray bogus, shall be used to cover the chamber floor. Two overlapping sheets of 36-40 in. width or one sheet of 6 ft. width may be employed. No special weight is specified although 60-80 lb. gray bogus paper has been found excellent.

J. Apparatus for Picking Up Flies: Any convenient means of picking up

*Chemical Specialties Manufacturers Association, 50 E. 42 Street, New York, New York.

GLOSSARY OF PRESSURE PACKAGING TERMS*

Active Ingredient—component of an aerosol formulation that produces the specific effect for which the formulation is designed.

Aerosol—a suspension of fine solid or liquid particles in air or gas, as smoke, fog, or mist. As defined by the Department of Agriculture, 100 per cent of the particles in an insecticidal aerosol spray must have a diameter less than 50 microns and 80% of the particles must have a diameter less than 30 microns.

Aerosol Insecticides Storage Test—tentative official method (sponsored by CSMA) for determining storage characteristics of aerosol insecticides.

"Aerosol" Product—self-contained sprayable product in which the propellant force is supplied by a liquefied gas. Includes space, residual, surface coating, foam and various other types of products but does not include gas-pressurized products such as whipping cream. The term aerosol as used here is not confined to the scientific definition.

Aerosol Test Method for Flying Insects—official bio-assay method (sponsored by CSMA) using houseflies and OTA.

Auxiliary Solvent—liquid material used in addition to the primary solvent. Generally used to replace part of the primary solvent to produce some specific effect or as a matter of economics.

Chemical Attack—chemical reaction or solvent effect, causing failure or deterioration of plastic and rubber parts, organic coatings, metals, or lithography involved in the completed package.

Compatibility—broad term meaning that the various components of an aerosol formulation can be used together without undesirable physical or chemical results.

Concentrate—a basic ingredient or mixture of ingredients to which other ingredients, active or inactive, are added.

Container—metal, glass or plastic shell in which an aerosol formulation is packaged.

Corrosion—chemical alteration of the metal parts of container or valve. May lead to package failure and/or product deterioration.

Cosolvent—solvent used to improve the mutual solubility of other ingredients.

Crimp—one operation by which the valve may be permanently seated in some aerosol containers.

Density—weight of a given volume of material at a specified temperature.

Delivery Rate—weight of mixture discharged from dispenser per unit of

time at a specified temperature. Usually expressed as grams/second at 80°F.

Dispenser—metal, glass, or plastic shell with valve from which an aerosol or pressurized formulation is dispensed.

Eductor Tube—tubing connecting the lower portion of container or dispenser with valve. Sometimes mislabeled "syphon tube" or "dip tube."

Foam Product—aerosol formulation containing a solution or emulsion which is dispensed in a highly expanded fluffy form by a liquefied gas propellant.

Head Space—volume in upper portion of dispenser not filled with liquid contents. Usually expressed as per cent of total volume of dispenser at a specified temperature.

High Volatile Ingredients—see Volatile Ingredients.

Inert (or Inactive) Ingredient—component of an aerosol formulation that does not contribute to the specific effect of the formulation. In some cases, may be quite arbitrarily defined. For example, with insecticides, only the propellants are considered as inert ingredients.

Low Volatile Ingredients—see Non-volatile Ingredients.

Metering Valve—valve that delivers a definite, limited amount of aerosol formulation each time the valve mechanism is operated.

Non-volatile Ingredients—components of an aerosol formulation with a vapor pressure less than atmospheric pressure (<14.7 lbs./sq. in. absolute) at a temperature of 105°F. Sometimes called *low volatile* components.

Official Test Aerosol, or OTA—a standard insecticide dispenser and formulation prepared by CSMA for use in Official Aerosol Test Method for Flying Insects.

Particle Size—diameter of solid or liquid particles expressed in microns (thousandths of a millimeter).

Pressure—internal force per unit area exerted by any material. Since the pressure is directly dependent on the temperature, the latter must be specified. The pressure may be reported in either of two ways:

(A) Absolute pressure—the total pressure with zero as a reference point. Usually expressed as pounds per square inch absolute (psia).

(B) Gage pressure—the pressure in excess of atmospheric pressure. Under standard conditions at sea level, the numerical value of the absolute pressure is 14.7 higher than that of the gage pressure.

The gage pressure is usually expressed as pounds per square inch gage (psig).

Product Deterioration—chemical reaction or physical change within or between components considered compatible in original formulation. May be due to time or temperature of storage or other factors.

Product Formulation—specific formulation of completed product, including propellant(s). Usually expressed as weight/weight (w/w) per cent.

Propellant—liquefied gas with a vapor pressure greater than atmospheric pressure (>14.7 lbs. per sq. in. absolute) at a temperature of 105°F.

Solubility—the extent to which one material will dissolve in another. Generally expressed as per cent by weight. May also be expressed as per cent by volume or parts per 100 part of solvent by weight or volume. The temperature should be specified.

Solvent—liquid part of an aerosol formulation used to dissolve solid or other liquid parts.

Spray—the dispersed discharge from an aerosol-type dispenser in the form of small droplets or particles. Does not include foam-type discharge.

Spray Coating—aerosol spray product for surface application, which leaves a residual clear or pigmented finish for protective or decorative purposes.

Stability—ability of a product to maintain its original characteristics over extended storage periods, under normal variations in temperature conditions.

Synergist—an auxiliary material that has the property of increasing the effect of the active ingredient even though it may have little specific activity itself.

NOTE: In the case of insecticides, synergists are considered as active ingredients.

Valve—mechanism for discharging products from aerosol-type dispensers.

Viscosity—internal resistance to flow of a solid (powder), liquid or gas at a specified temperature. A definite measurement for the consistency of a material.

Volatile Ingredients—components of an aerosol formulation with a vapor pressure greater than atmospheric pressure (>14.7 lbs. per sq. in. absolute) at a temperature of 105°F. Sometimes called *high volatile* components.

*Presented by the Definitions and Terms as Applied to Aerosol, Sub-committee, Scientific Committee, Aerosol Division, Chemical Specialties Manufacturers Association. Reported April 25, 1956, and Adopted by Scientific Committee May 20, 1956. Accepted by the Aerosol Administrative Committee May 20, 1956.

COCKROACH AEROSOL TEST METHOD

Tentative Method of the Chemical Specialties Manufacturers Association* for Evaluating Aerosol Cockroach Insecticides

I. INTRODUCTION

STARTING in 1942 extensive studies were made by various CSMA and Federal laboratories to develop a standard test method for evaluating aerosol insecticides against flying insects. This work led to the adoption of the CSMA Aerosol Test Method for Flying Insects on October 12, 1952 (1), following the use of essentially the same method on a tentative basis starting in 1949 (2). During the same period a number of laboratories developed methods for evaluating aerosol insecticides against cockroaches. Descriptions of several of the methods appear in the literature (3,4,5), while other techniques were reported at meetings of the Insecticide Scientific Committee.

Early efforts of the Committee to develop a standard cockroach aerosol method centered around the use of space treatments in Peet-Grady or larger aerosol chambers with the insects exposed in suitable open cages. Following a co-operative test of a space spray method in 1952 and 1953, the Committee decided to use a direct spray treatment rather than a space treatment. It was also decided to use large nymphs of the German cockroach as the test insect and to try to adapt the procedure to the use of the same spray chamber specified for the Official Cockroach Spray Method (6). During 1954 a direct spray method was developed and studied by several CSMA and Federal laboratories. In a cooperative series of tests (early 1955), using coded dispensers with three different formulas (2.0% DDT plus 0.2%, 0.4% and 0.8% pyrethrins), all five laboratories were able to differentiate between the three formulas. A decision was then made by the Committee in May, 1955, to prepare the method in official form so that it might be considered for adoption on a tentative basis.

Reports of the Committee's studies appear in the minutes of the Insecticide Scientific Committee and the Committee reports in the CSMA PROCEEDINGS (7,8,9,10).

In this method it should be understood that the term "aerosol" applies to pressurized formulations containing 20 per cent by weight or less volatile ingredients (insecticides, base oils, solvents, etc.) and 80 per cent or more propellant liquefied gases (trichloromonofluoromethane, dichlorodifluoromethane, methylene chloride, etc.). Whether the method can be satisfactorily

applied to formulations containing greater than 20 per cent low volatile ingredients will depend on additional study and co-operative tests.

The method here described is thought to offer a satisfactory means of determining the relative efficiency of aerosol formulations when applied as direct sprays to cockroaches. It is not designed to measure residual action. As a biological test it is subject to the variations that accompany the reaction of living organisms and should be employed under the supervision of a person familiar with the biological testing of insecticides. In order to measure with reasonable tolerance the relative effectiveness of different insecticides, the test is run in conjunction with the Official Test Aerosol, which is designated as the basis of comparison. The format of the method follows that of the Official Cockroach Spray Method.

II. APPARATUS

A. Reference Insecticide. The reference insecticide shall be the Official Test Aerosol (OTA) prepared by the CSMA, Inc. The OTA must be dispensed from the container in which it is supplied with particular care being taken that the OTA dispenser employed meets the specifications designated on its label.

B. Dispenser for Experimental Aerosol. No restriction is made on the dispenser employed in connection with the experimental aerosol formulation. However, it should be noted that the test results apply only to the experimental formulation as dispensed from the particular unit employed. In reporting results, the dispenser used with the experimental aerosol shall be specified.

C. Test Insect. The test insects shall be healthy, normal, undeformed last nymphal instars of the German cockroach, *Blattella germanica* (Linn.). Recently emerged last nymphal instars, e.g., those whose pigmentation is not dark, shall not be used for testing purposes. It is recommended that the last nymphal instar stage shall have been attained at least three days prior to testing.

D. Rearing Room. This room may be of any convenient size, constructed so as to be free from strong drafts and maintained at a temperature of 75 to 85°F. and a relative humidity of 30 to 50 per cent. It should be separate from the testing room in order to eliminate the possibility of traces of insecticide coming in

contact with the test insects. Ventilation should be provided to reduce odor.

E. Testing Room. This room may be of any convenient size permitting adequate space for the operator to handle the test efficiently. While tests are being conducted this room shall be maintained at a temperature of 78 to 82°F. It is suggested that relative humidity be held between 30 and 50 per cent.

F. Spray Chamber. The spray chamber shall be a box-like structure of solid material measuring 18 inches wide, 18 inches long, and 25 to 30 inches high. The open floor of the chamber shall be covered with 1/4-inch mesh wire hardware cloth. Suitable guides shall be fastened to the chamber floor to permit the centering of the treatment container in some definite position in respect to the nozzle of the OTA and test aerosol dispensers. The top of the chamber shall be open. The front wall of the chamber may be in the form of a sliding door permitting convenient access to the interior of the chamber. The chamber shall rest on a stand, placing it at the proper height for convenient operation of the test.

An adjustable hinged shelf shall be affixed to the outside of the center of the back upper edge of the spray chamber. Any suitable shelf (see Figure 1) which will permit the OTA and test aerosol dispensers to be held in a standard position can be used. One satisfactory shelf is made of aluminum sheet fitted with adjustable guides (in slots with wing nuts) which permit adjustment for dispensers of different sizes. An adjustable metal support rod (casement window adjuster) can be used to regulate the angle of the shelf. Markings can be made on the rod and plate to permit rapid adjustment for different dispensers.

The above-described spray chamber is identical with that specified for the CSMA Official Cockroach Spray Method, except that the braces and mounting for the spray atomizer have been removed and the hinged shelf for holding the aerosol dispenser has been added.

G. Treatment Container. The Treatment container shall be a screen-bottomed container 3 1/2 inches in diameter with 3-inch side walls. Sixteen mesh wire screen shall be soldered in place to form the bottom of the container in such a manner that the entire bottom is completely open. Ordinary tin cups of the proper dimensions with handles removed and the solid bottom replaced by wire screening have been found useful as test containers.

H. Insecticide Paper. Unsized, nonglazed, absorbent paper such as brown

*Chemical Specialties Manufacturers Association, 110 E. 42 Street, New York, New York.

kraft or gray bogus paper shall be used beneath the treatment container during the application of the aerosol mist. No special weight is specified, although 60 to 80-pound gray bogus paper has been found excellent.

I. Recovery Dishes. Glass crystalizing dishes measuring 125 millimeters in diameter and 65 millimeters high shall be employed as recovery cages. The bottoms of the recovery dishes shall not be covered with filter paper or other materials. Sixteen mesh wire screen covers may be employed as recovery dish covers during the 48-hour holding period following spray application in order to prevent the entry of wild roaches.

III. PROCEDURE

A. Rearing of Test Insects. Any suitable method permitting the production of large numbers of the test insect under controlled conditions of temperature and humidity as previously described may be employed. The rearing technique described by Woodbury and Barnhart (11), which makes good use of a brood chamber containing adult females from which large numbers of first instar nymphs may be collected at frequent intervals, has been successfully used in a number of laboratories. All molded food, dead females, and empty egg cases should be removed weekly. Wild cockroaches shall not be used, and all test insects shall have been reared under uniform conditions.

B. Food. Up until the time of testing, cockroaches shall be provided at all times with food and water. The standard food shall be Dog Chow Checkers manufactured by the Ralston Purina Company, St. Louis, Missouri, or equivalent.

C. Test Procedure. Last instar nymphs shall be isolated in the recovery dishes or other suitable containers from the cultures in groups of 20 by means of a suction device, by anesthetizing them with carbon dioxide gas or any other suitable method which does not injure them. In selecting the test insects, every effort shall be made to obtain uniform test groups.

Prior to use, the OTA and test aerosol dispensers shall be calibrated at $82 \pm 2^\circ\text{F}$. to determine their spray rate in grams per second. The dispensers shall be aligned on the adjustable shelf and settings determined for the various dispensers to permit rapid handling. The dispensers shall be so aligned that the aerosol mist is directed into the open top of the treatment container which rests on the floor of the spray chamber. The treatment container shall be placed against the center of the front wall of the spray chamber. Suitable guides on the chamber floor or front wall of the chamber will aid in placing the treatment container in a standard position. A line may be drawn on the chamber wall and on the dispenser to aid in aligning the nozzle with the center of the top of the treatment container. The treatment container shall rest on a 5 x 5 inch square of insecticide paper. Except

EXAMPLE OF TEST DATA

Test	Date	OTA		Sample A		Sample B	
		Dosage (grs.)	% D&M 48 hrs.	Dosage (grs.)	% D&M 48 hrs.	Dosage (grs.)	% D&M 48 hrs.
1	2/15/55	3.1	90	3.3	75	3.2	35
2	2/15/55	3.2	80	3.8	80	3.1	40
3	2/15/55	3.2	35	2.0	65	2.9	20
4	2/22/55	3.3	50	3.2	75	3.2	35
5	2/22/55	2.7	55	3.3	75	3.1	50
6	2/22/55	3.0	80	2.9	60	2.8	35
7	2/22/55	3.0	60	3.1	65	3.3	35
8	2/22/55	2.9	50	3.0	80	2.9	25
9	2/22/55	2.9	60	3.1	75	2.9	35
10	2/22/55	3.3	35	3.0	70	3.6	50
Average		3.06	59.5	3.07	72.0	3.10	36.0

Reported as follows: Sample A—Meets Standard, Sample B—Does not meet Standard.

for the 5 x 5 inch square of paper, the chamber floor ($\frac{1}{2}$ inch mesh wire hardware cloth) shall be open. The paper shall be changed after each spray application.

Immediately before spray application the cockroaches shall be transferred to the screen-bottomed treatment containers. These containers shall be free from all traces of insecticides and shall have the entire inner wall surface suitably oiled or greased to prevent the escape of the cockroaches and to confine them to the container floor. Prior to spray application the treatment container shall be agitated sufficiently to distribute the test insects uniformly over the container floor. The treatment container shall be removed from the spray chamber 30 seconds after the start of spray application. The test insects shall be immediately transferred from the treatment container to the recovery dish. The treated cockroaches shall be held under rearing room conditions through the 48-hour observation period and shall receive neither food nor water.

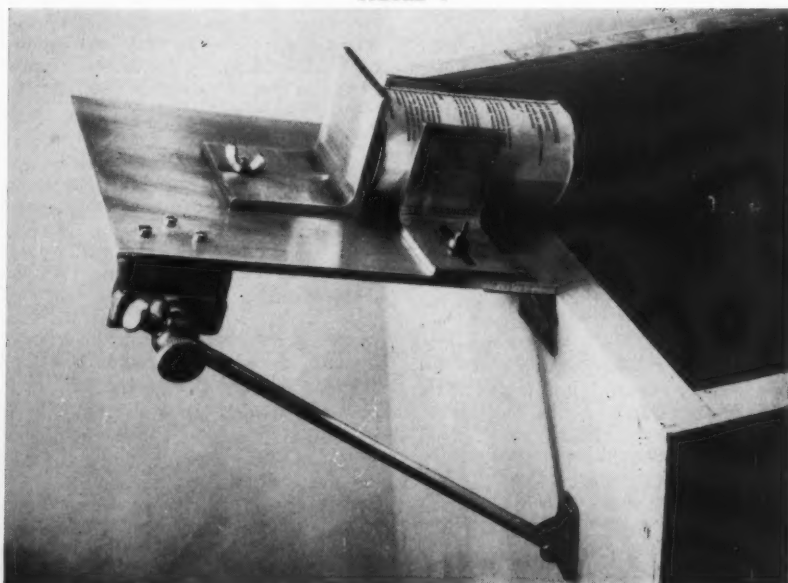
In evaluating a test sample, a minimum of 10 individual test groups shall be run for the test dispenser in conjunction with 10 test groups receiving

OTA. An equal number of replicates shall be made for members of any given test series on a given test day. The average dosage employed shall be approximately the same throughout a given series of tests and of such magnitude as to result in an average of 50 per cent to 75 per cent of the insects dead and moribund at 48 hours with the OTA. Average dosages shall be considered the same if they agree within 0.2 grams. Cooperative tests among CSMA laboratories have shown the required dosage to be 2.0 to 4.0 grams. Test dispensers shall be weighed before and after the spraying of each test group of insects, and the weight of material used shall be recorded.

D. Assembly and Evaluation of Data. Evaluation of test dispensers shall be made on the basis of observations taken 48 hours after spray application, at which time the percentage of test insects normal, moribund, and dead shall be determined. Any insect showing signs of life but incapable of locomotion shall be considered moribund. Similar records taken at 24 hours or at intervals longer than 48 hours may be of interest in critical studies. It is recommended

(Turn to Page 277)

FIGURE 1



AEROSOL INSECTICIDES STORAGE TEST

Tentative Official Method of the Chemical Specialties Manufacturers Association for Storage of Aerosol Insecticides

AEROSOL insecticides are subjected to storage tests in order to ascertain the shelf-life of the complete package and to evaluate the degree of suitability of the valve and container components for their intended uses. It is impractical to promulgate a set procedure for conducting storage tests since variations will be necessitated by differences in the ultimate objective. For example, the primary interest of one investigation may be in valve evaluation, while another may be principally concerned with container suitability or the shelf-life of a new product in an existing package. It follows that storage test methods must be flexible enough to accommodate the small procedural changes thus required. An attempt will be made only to outline the principles to be observed in establishing a definite procedure in order to allow the individual investigator the prerogative of adapting these to satisfy his particular requirements.

There are three major points that should be borne in mind when a storage test of aerosol containers is to be made. First, sufficient samples should be available to replace any containers that fail during the course of the test and to make it possible to later extend the storage period, if desired. There is nothing more discouraging than reaching the end of a long storage test with a quantity of samples which, due to unusual conditions arising, are insufficient in number to provide a sound basis for drawing valid conclusions. Second, it is extremely important that the examinations of the test pack be conducted according to standardized procedures and at regularly scheduled intervals. Only if this rule is followed can there be any assurance that important developments will not be missed and that the results will correlate with those of other storage tests. Third, the examinations should be made by personnel familiar with the problem being investigated and well qualified to evaluate the condition of the containers, valve components and product. It is highly desirable to have the same individual conduct all the examinations of a given test pack since most of the data is not obtained by direct measurement and is, therefore, not entirely objective in nature. This and a standardized examination procedure will do much to minimize the effect of the human element.

Before any samples are committed to storage, certain information should be made available. So that the test

pack can be intelligently set up, all pertinent background information concerning the problem should be assembled. Certain tests should be conducted to eliminate, insofar as possible, defective containers or valves from the tests, although the frequency of such defects should certainly be recorded. To make this segregation possible, pressure determinations and hot bath, vial leakage and spray tests should be made on each filled container. Conditions of filling and handling should approximate as closely as possible those that would be encountered commercially.

There are two types of storage tests that may be performed with aerosol insecticides. The first is the so-called "live" storage test, in which the valves are actuated and the determinations made at relatively frequent intervals. The purpose is, of course, to simulate conditions encountered during use of aerosol dispensers. The second type of test, often referred to as "dead" storage, simulates conditions found in warehouse storage and is performed when shelf-life information is sought.

Live Storage Test

Containers for "live" storage tests are generally stored at room temperature. In addition, a higher temperature storage, e.g., 98°F., is frequently employed. Use of the latter storage temperature is particularly desirable when a new valve or product is being evaluated. The use of storage temperatures below 32°F. or the alternate exposure of test containers to sub-freezing and elevated temperatures is said to have considerable merit in the screening of new valves or new valve materials.

If the purpose of the investigation is to evaluate a valve, half the samples at each storage temperature should be kept in an inverted position. If the product or any constituent thereof exerts a detrimental effect on the sealing material of the valve, often the conditions may be observed more readily in the case of the inverted cans. Six cans inverted and six upright for each temperature is the minimum sample of each variable that should be considered. If the test is to involve only one storage condition, ten to twelve cans per variable, upright and inverted, is a more desirable sample size.

Examinations of "live" storage cans are usually made weekly and possibly oftener if completion of the test in less total elapsed time is necessary. The tests are usually considered com-

pleted when 10 grams or less of product remains in the containers. Extension of the test beyond this point may cause erratic and unreliable results. At each examination weigh loss and discharge rate (10 seconds) are measured. The determination of internal pressure at each examination is usually not necessary, but it is recommended that pressures be taken initially and two or three other times, equispaced during the test. Particle size may also be determined, if desired. When any valve becomes inoperative or fails to operate properly, the container and valve should be torn down immediately to ascertain the cause of failure. Each container and valve should be critically examined as soon as possible after the final valve actuation of the test.

Dead Storage Test

A wider range of storage conditions are employed in "dead" storage tests than is the case with "live" storage, 95-100°F., room temperature, 130°F., and below freezing (0-32°F.) being used. Standard procedure usually calls for the use of 98°F. and room temperature storage, while the other temperatures are employed in special cases. Temperatures of from 95° to 100°F., often referred to as incubation temperature, may accelerate container corrosion and leakage if the containers are so predisposed. However, incubated storage should always be used in conjunction with room temperature since it is often difficult, if not impossible, to predict normal shelf-life on the basis of 98°F. tests alone. Storage below freezing is valuable for evaluating the sealing efficiency and suitability of the gasket materials in insecticide valves. Storage at 130°F. is employed when the resistance of the container to structural fatigue is to be determined. Containers at each storage temperature should be held both upright and inverted.

Examinations of containers in dead storage are usually made following 1-, 3-, and 6-months storage and at 6 month intervals thereafter until the test is completed. Most investigations are concluded after 24-months storage, but they may be extended for a much longer period, if the previous results and the objective so require.

Samples should be provided for the "dead" storage test so that a minimum of two dispensers of each variable from each storage temperature can be evaluated and torn down at each scheduled examination. The other samples remain untouched,

except for weighing, until they are needed at a subsequent examination. A minimum of twelve extra containers per variable should be stored at each temperature to allow for extension of the test, if such later becomes necessary, and to allow a larger number of samples to be inspected at the final examination. Thus, the minimum suggested number of cans per product, container or valve variable becomes:

$$4np(4+y)$$

where: y designates the duration of the test in years,
 n the number of storage temperatures, and
 p the number of storage positions to be employed.

Examination

The examination of the pack may be divided into performance determinations, container and valve inspection, and product evaluation. The performance of the complete aerosol insecticide package is ascertained by making weight loss, discharge rate, pressure and possibly particle size determinations. If entomological data is required, such may be obtained by standard procedures now extant. As a check on filling, the volatile/non-volatile ratio may be determined following these tests. After expulsion of the propellant, the product should be transferred and the container and valves carefully torn down and examined. The metal valve parts should be inspected carefully for evidences of corrosion, and the rubber or plastic components for swelling, softening or disintegration. Conditions in the container interiors should then be noted with special emphasis on any staining, detinning, rusting, pitting or other indications of corrosion that may be present. Microscopic examination of valve and container components is recommended for without this assistance important and indicative developments may be overlooked. The product from the test containers is usually examined for color change, precipitate or sludge formation. If corrosion is found or suspected, it is suggested that the product be analyzed for the moisture, iron and tin content. If any abnormal or undesirable conditions are found in performance of valve or product, sufficient additional samples of the same lot should be examined to confirm the findings.

Safety Precautions

Aerosol storage tests involve a container, valve or product of unknown compatibility and performance. For this reason, and remembering the violence that may accompany the bursting of aerosol containers, it behooves the investigator to observe safety precautions. The necessity of using gloves, safety shield and glasses, and equipment with proper controls does not need further amplification. If, in the course of a test, container perforations or signs of advanced corrosion are found, or if the product, dispensers and/or valves otherwise become unmerchantable, the entire

lot of samples should be destroyed. Besides wasting time and space, to continue such dispensers under test is to run the risk of serious accident.

Typical Pack

The above can best be illustrated by presenting in table form (Table I) a typical aerosol insecticide storage test made to compare in a given container the shelf-lives of a new formulation and a standard formulation. It is assumed that the pre-test information has been accumulated, and containers or valves with obvious defects have been eliminated.

Other Test Procedures

There are several other procedures that should be considered in conjunction with an aerosol testing program.

In evaluating a valve for a given formula it may be desirable to subject the containers to a continuous discharge test whereby the containers are emptied in a single burst or a series of long bursts. Such a procedure is very rapid and may give valuable clues on the suitability of the valve gasket material for the product. If indications of weakening, disintegration or undue swelling of the valve gaskets are found by means of this test, particular attention should be directed to the results of the live storage test.

Before commercial packaging of a new product or the use of a new container or valve is approved, certain information outside the scope of the laboratory test should be obtained.

Filled containers should be subjected to normal handling, cartoning and shipping operations to determine the suitability of protective devices and the resistance of containers and valves to shock. Dispensers should be shipped to and stored in warehouses having the extremes in temperature that could be encountered in distributing and marketing the product. After the predetermined storage period in the various locations, the containers should be returned to the laboratory for complete examination.

Once commercial packaging of a product is initiated, a program may be inaugurated whereby defective or complaint dispensers encountered in the field are returned to the laboratory. By this means a continuous check on quality is maintained and it may enable the packer to be forewarned of difficulty before it becomes serious so that corrective measures may be taken.

Summary

To summarize, the three major prerequisites for an adequate storage test are: (1) the providing of an adequate number of samples, (2) a well planned examination schedule and procedure, and (3) competent personnel to perform the tests. If the basic rules outlined above are adhered to, much valuable information, not obtainable by other means, will result, thus rendering the storage test an indispensable adjunct to the aerosol insecticide testing program.

TABLE I

	"Live" Storage	"Dead" Storage
Product, container, valve variables	2 (product)	2 (product)
Storage temperatures	R.T., 98°F.	R.T., 98°F., 30°F.
Storage positions	Upright & Inverted	Upright & Inverted
No. of filled cans per formula	24 (half inverted at each temperature)	144 (half inverted at each temperature)
Total No. of filled cans	48 (half inverted)	288
Duration of test	Until completed	2 years
Examination schedule	Weekly	1,3,6,12,18,24 months
No. of containers examined each examination	48 cans	24 cans (2 per product per temperature per position), all remaining dispensers examined after 24 months storage. All dispensers weighed.
Examination procedure	1. Wt. loss 2. Pressure (see above) 3. Discharge rate (10 sec.) 4. (Particle size) 5. Valve and container inspection at final examination or when failure occurs.	1. Wt. loss 2. Pressure 3. Discharge rate (10 sec.) 4. Valve examination 5. Container examination 6. Product examination

AEROSOL TEST METHOD FOR FLYING INSECTS

Official Method of the Chemical Specialties Manufacturers Association* for Assaying Aerosols for Flying Insects

I. INTRODUCTION

Early in the developmental period of liquefied gas aerosols starting in 1942 and especially following their appearance on the civilian market on a large scale in 1946, the need for a common method of biologically assaying aerosols became apparent. The literature records several testing techniques (among them 1, 2, 3, 4, and 5) employed by various investigators at that time, but the necessary cooperative tests leading to the development of an official method were not initiated until 1947. The first series of cooperative aerosol tests among industrial and federal laboratories was organized and conducted in 1947 under the direction of the NAIDM (now CSMA) Aerosol Committee (6). These tests employed a standard formulation in a standard dispenser at three dosage levels by the method in current usage in the cooperator's laboratory. Employing the results of the first cooperative tests as a basis, a second series of cooperative tests was designed and conducted under the direction of the NAIDM's Insecticide Scientific Committee. In this second series of tests made during the period May to October, 1948, four conventional low pressure aerosol formulations, each packaged in a standard dispenser, were tested by nine cooperating laboratories. In these tests (7), the use of free flying flies, a standard dosage and a standard testing technique were employed. A third series of cooperative tests were conducted by ten participating laboratories. These tests (8) made use of three coded formulations containing .2%, .4%, and .8% pyrethrins. (See minutes). The method here presented is based on the outcome of the first, second, and third series of cooperative tests and, in so far as practical, follows the Official Peet-Grady (9) Test Procedure (both large and small group). This technique for testing aerosols should be regarded as a practical test method designed for the comparison of formulations in the dispensers in which they will be employed by the consumer. It is restricted at present to the use against house flies, although it is felt that with modifications in dosage the general procedure would be satisfactory for other flying insects.

II. APPARATUS

A. Reference Insecticide.

The reference insecticide shall be the Official Test Aerosol (OTA) pre-

pared by the CSMA, Inc. The OTA must be dispensed from the container in which it is supplied with particular care being taken that the OTA dispenser employed meets the specifications designated on its label.

B. Dispenser for Experimental Aerosol.

No restriction is made on the dispenser employed in connection with the experimental aerosol formulation. However, it should be noted that the test results apply only to the experimental formulation as dispensed from the particular unit employed. In reporting results, the dispenser used with the experimental aerosol shall be specified.

C. Test Insect.

The test insect shall be the house fly (*Musca domestica*, L.) reared from a strain mixed under the supervision of the CSMA. Healthy test groups having an average age of four days shall be used and individual flies in the test groups shall not be less than three nor more than six days old at the time of testing. The strain shall be of such susceptibility that the Official Test Insecticide (OTI) will cause a 24-hour mortality of 30 to 55 per cent and with approximately 95 per cent of the flies paralyzed at ten minutes following spray application by the Peet-Grady method.

D. Fly Cages.

Cages of any convenient type may be used if they provide at least 1 cubic inch of space per fly and have at least two sides and the top screened. It is suggested that the base be square in shape to provide maximum floor space. The floor of the cage is preferably detachable to facilitate cleaning and inserting a paper floor covering. The cages are constructed of wood or other suitable material and 16 mesh wire screening; they are fitted with a sleeve opening, rubber membrane, or a door.

E. Rearing Room.

This room may be of any convenient size constructed so as to be free from strong drafts, and maintained at a temperature of 82 ± 2 degrees Fahrenheit and relative humidity of 50 ± 5 per cent. It should be separate from the testing room in order to eliminate the possibility of traces of insecticide coming in contact with the test insects. Ventilation should be provided to reduce odors and gases from fermenting media.

F. Testing Room

This room shall be of any convenient size, capable of holding the

aerosol test chamber (Peet-Grady Chamber or larger chamber) and permitting adequate additional space for the operator to handle the test efficiently. While conducting tests, this room shall be maintained at a temperature of 75 to 85 degrees F. It is suggested that the relative humidity be held between 40 and 70 per cent. Since the exhaust fan of the chamber will move relatively large quantities of air, the temperature of the air entering this room should be approximately that specified above.

G. Aerosol Test Chamber.

The test chamber shall be a Peet-Grady Chamber as specified in the Peet-Grady Method, or a larger chamber meeting the general specifications of the Peet-Grady Chamber. In the case of larger chambers, it is recommended that the dimensions be such as to approximate a normal room.

H. Exhaust Fan.

An exhaust fan moving not less than 1000 cubic feet of air per minute through the Peet-Grady chamber, or a fan of proportionately larger capacity for testing chambers larger than the Peet-Grady Chamber shall be used to ventilate the chamber after each test. It shall be arranged with adequate piping to exhaust the chamber vapors outside of the building.

I. Insecticide Paper.

Unsize, nonglazed, absorbent paper, such as brown kraft or gray bogus, shall be used to cover the chamber floor. No special weight is specified although 60 to 80-lb. gray bogus paper has been found excellent. In certain laboratories testing chamber ceilings and walls have been covered with cardboard, kraft paper or other material suitably arranged for easy renewal to reduce chamber cleaning difficulties.

J. Apparatus for Picking Up Flies.

Any convenient means of picking up the paralyzed flies without injuring or appreciably disturbing them may be used. If a vacuum device is used, it must produce gentle suction, have a sufficiently large receptacle to prevent crowding of the flies, and shall be cleaned after each test with the same materials used in cleaning the chamber.

In laboratories in which it is felt desirable to capture unparalyzed flies at the end of the test exposure period, suitable means of capturing the flies without injury in a clean apparatus shall be employed.

*Chemical Specialties Manufacturers Association, 110 E. 42 Street, New York, New York.

III. PROCEDURE

A. Rearing and Handling Flies.

In this procedure, eggs are transferred to medium suitable for the development of larvae. The pupae are collected from the medium and placed inside of cages, and the adult flies emerge and remain in these cages until the day of testing.

(a) *Larval medium*: The preferred containers are cylindrical glass battery jars approximately 6 in. in diameter and 9 in. high. For one jar, mix 340 gm. (12 oz.) standard dry alfalfa-bran mixture (*1) with approximately 750 ml. of an aqueous suspension containing 15 gm. moist cake yeast (*2) and 10 ml. Diamalt (*3).

Mix thoroughly until a loose, fluffy medium is obtained, transfer it to the battery jar without packing, cover with cloth and set in the insectary. The amount of suspension required for best rearing results will need to be determined in each laboratory and it may be varied in order to prevent mold growth. It is suggested the medium be prepared in the late afternoon of the day before egg collection.

(b) *Eggs*: Eggs are collected for a period not longer than 16 hours from food dishes or other oviposition sites in cages containing mature flies not more than 8 days old. It is suggested that fresh oviposition medium be placed in fly cages in the late afternoon and eggs be collected early on the following morning. After collecting the eggs they must be measured and seeded without delay. Wash the eggs in tap water at room temperature and measure 2000 eggs as accurately as possible. This may be done by allowing the eggs to settle in a calibrated pipette or graduate (0.1 ml. settled eggs contains about 700) or the eggs can be filtered and measured in calibrated pits or cells. Use 10 ml. tap water to measure and to scatter the eggs in a $\frac{1}{2}$ inch pit located in the center of the jar of larval media. Cover the eggs with a loose medium, replace the cloth covers on the jars, and set jars in the insectary so that at least 1.5 inch separates each jar to permit free air circulation. The maximum temperature in the jar (about 3 days later) must not exceed 130°F. Under normal conditions, more than 85 per cent of the eggs should hatch within 36 hours of the time they are laid.

(c) *Pupae*: Mature larvae migrate to the top portion of the medium and normally all larvae will have pupated by the seventh day after seeding eggs. When this occurs, the portion of the medium containing pupae is loosened, poured into a shallow tray, and air dried at room temperature. An electric fan may be used to hasten drying. Pupae

are separated from the dry medium by sprinkling the pupae-media mixture on an inclined tray or chute set in front of an air blast such as that from an electric fan. The pupae must be handled gently and as little as possible in order to avoid injury. Under normal conditions, at least 95 per cent of flies will emerge from the pupae.

The separated pupae are thoroughly mixed and weighed in groups as test units and each group is placed in a shallow dish which is, in turn, placed in a cage which provides at least 1 cubic inch of space per pupa. If the small group procedure is used, more than 500 pupae are placed in stock cages and adult flies are sampled prior to testing. If the large group procedure is used the test unit consists of approximately 500 pupae.

(d) *Adult Flies*: Each cage is supplied daily with a dish containing at least 15 ml. for each 100 flies of a solution consisting of 5% spray dried, non-fat milk with solids (roller dried or caked milk solids settle out of suspension within a few hours and are unsuitable as food.) and 2% granulated sugar thoroughly dispersed in water; this shall be so prepared as to prevent the flies from drowning. A 40 per cent formalin solution at the rate of 1/1500 delays souring of milk for several hours. Satisfactory food must be available to the flies at all times. The series of test units is kept until the second day of oviposition (usually the 14th day after the culture was prepared) when they are ready for testing. Under normal rearing conditions, at least 80 adult flies should be obtained from each 100 eggs seeded.

B. Testing Flies.

Before a fly aerosol test is started, the aerosol test chamber must be clean and have clean paper on the floor, all ports and openings must be closed, and the temperature must be $82 \pm 2^\circ\text{F}$., and all windows must be equally shaded. In chambers where walls and ceilings are covered with paper or other material, contamination, if present, must be at sufficiently low levels so as not to influence test results. Chambers are considered to be contaminated and unsatisfactory for test use when test flies, held in them for a 12 to 16 hour period with food but without insecticide treatment, show mortalities in excess of 10%, or when over 10% of the flies are paralyzed within 30 minutes after liberation. It is recommended that laboratories make a standard practice of taking contamination observations, employing a normal fly test group, following each day's testing. In both the large and small group procedures, only flies which are capable of flying shall be liberated into the aerosol test chamber. In the small group method, a sample of 100 ± 5 flies is used in each test; but in the large group procedure, all flies in one cage are used in a single test. Samples may be taken by liberating the flies directly into the chamber and continuing until about 10

per cent of flies remain in the stock cage. These are discarded. Samples may be taken also by discarding the first 100 flies and then counting 50 flies into each of a series of small cages. One hundred flies are counted into the last cage and, working backward, 50 flies are added to each. Flies remaining in the stock cage are discarded. The order of spray treatments must be randomized.

After liberating the flies in the chamber, and with the bomb at $82 \pm 2^\circ\text{F}$., a total of 3.0 ± 0.5 grams of aerosol mixture per 1000 cubic feet shall be applied in a continuous flow. In Peet-Grady Chambers, this is 0.648 ± 0.108 grams. The dispenser nozzle may be oscillated slowly to effect uniform distribution of the aerosol mist within the test chamber. The mist shall not be directed onto chamber wall and ceiling surfaces. The test dispenser shall be weighed before and after the liberation of the aerosol mixture and the actual weight of material introduced shall be recorded. The chamber is closed at a constant temperature in the range of $82 \pm 2^\circ\text{F}$. for 15 minutes from the time the aerosol mist is introduced.

Counts shall be made as to the number of flies "down" (paralyzed) at 5 and 10 minutes following insecticide application. These counts are especially important because with conventional formulations practically all flies "down" at 15 minutes fail to recover during the 24-hour observation period. At the end of 15 minutes the ports are opened and the chamber is ventilated by means of the exhaust fan while the flies are collected.

The "down" flies are picked up and transferred immediately to clean cages meeting the specifications of Section II, paragraph d. These flies may be counted when they are picked up or later, depending upon which time is more convenient. During the subsequent 24-hour recovery period, the cage is placed in the rearing room and supplied with an adequate quantity of a 5 per cent sugar solution, arranged so that the top of the dish is not more than $\frac{3}{4}$ inch above the floor of the cage and the flies can not drown in it. A gauze-wrapped ball of cotton saturated with 5 per cent sugar solution is also satisfactory.

The "up" (unparalyzed) flies in the chamber at the end of the 15-minute exposure period must be counted and either discarded or captured.

After a test is completed all toxic residues must be removed from the chamber or, if allowed to remain, must be at sufficiently low levels so as not to affect test results. Where chamber surfaces permit, wiping with a clean cloth saturated with alcohol containing 10% acetone will remove a number of toxic residues.

C. Assembling the Data.

The number of "up" flies must be counted and recorded at the end of the 15-minute exposure period. The

(Turn to Page 275)

*1 Mixed quarterly according to CSMA specifications by the Ralston Purina Co., St. Louis, Mo., on the basis of orders received by the first of January, April, July and October, in 50 lb. bags. Terms—pay on receipt of invoice.

*2 5 gms. dry yeast may be used.

*3 Standard Brands Inc., products. These can be obtained from local distributors in most cases.

SPECIFICATIONS FOR GENUINE PURE CARNAUBA WAX

Latest revision of specifications of American Wax Importers and Refiners Association.

THESE specifications, developed by the American Wax Importers and Refiners Association, were revised November, 1957, superseding the specifications of June, 1955.

They cover the types and grades listed in Table I.

The color of types 1, 2, 2A and 3 CRUDE shall be no darker than that of the official color card of The American Wax Importers and Refiners Ass'n. or unless otherwise agreed upon by the seller and the purchaser.

The wax shall be an original virgin product made directly from the powder obtained from the leaves of the Carnauba Palm (*Copernia Cerifera*). It shall be free of extenders or admixtures of other substances and shall conform to the following requirements and shall be so guaranteed by the seller.

Genuine Pure Filtered Refined Wax must conform to the specifications in Table II and the wax shall be free of extenders or admixtures of other

substances and shall be so guaranteed by the seller. These specifications are based on prescribed test methods which

are available from the American Wax Importers and Refiners Association, 36 W. 44 St., New York 18, New York.

TABLE I

Types and Grades of Carnauba Wax

Brazilian Designation		American Designation
Type 1 — Flor	=	Flor
Primiera	=	Prime or No. 1 Yellow
Type 2 — Medina	=	Medium or No. 2 Yellow
Type 2A — Roxa	=	Roxa or No. 3 Yellow
Type 3 — { Cauipe	=	Cauhype
{ Gorda Clara	=	{ Gorda Clara
		{ Light Fatty
		{ No. 2 North Country
Type 4 — Gordarosa	=	Fatty Grey or No. 3 North Country
Type 5 — Arenosa	=	Chalky

TABLE II

Composition and Properties of Carnauba Wax

	CRUDE			REFINED	
	Yellow Types 1, 2, 2A	Fatty Types 3 & 4	Chalky Types 5	Yellow Types 1, 2, 2A	Fatty Types 3 & 4
Melting Point — minimum	83°C 181.4°F	82.5°C 180.5°F	82.5°C 180.5°F	83°C 181.4°F	82.5°C 180.5°F
Flash Point — minimum	310°C 590°F	299°C 570°F	299°C 570°F	310°C 590°F	299°C 570°F
Volatile Matter (moisture included)—max. percent	2.0	1.5	6.0	} negligible	} negligible
Moisture — maximum percent	2.0	1.5	6.0		
Insoluble Impurities — maximum percent	1.0	2.0	1.5		
Acid Number — { minimum	2.0	4.0	4.0	2.0	4.0
{ maximum	6.0	10.0	10.0		
Saponification Number — { minimum	78.0	78.0	78.0	78.0	78.0
{ maximum	88.0	88.0	88.0	88.0	88.0
Paraffinic Hydrocarbons — maximum percent	2.0	2.0	2.0	2.0	2.0
Resinous Matter — maximum percent	5.0	3.5	3.5	5.0	3.5
Benzene Solubility — Maximum percent	8.0	8.0	8.0	8.0	8.0

ESTIMATION OF FOAM OF LIQUID DETERGENTS FOR HAND DISHWASHING

Three CSMA approved methods for estimating foam of liquid hand dishwashing detergents.*

METHOD A

I. **SCOPE:** This method is designed to compare the relative amounts of foam (or suds) produced by high foaming type liquid detergents used for hand dishwashing. This is a practical type laboratory test procedure employing actual washing technique.

II. **MATERIALS:** (a) Surface—regular dinner plates (in good physical condition) about 9 inches in diameter. (b) Dishpan—Conventional. (c) Dishcloth—Conventional. (d) Funnel— $\frac{1}{2}$ Gallon.

III. **STANDARD SOIL:** (a) 48.00% Crisco, 50.00% Flour, 2.00% Oleic Acid, and 0.05% Fluorescent dye. After soil has been prepared, age at least 20 minutes but not more than one week before using. (b) Amount of soil—1 level teaspoonful. (c) Soil applied—warm (100-120° F.) spread as evenly as practical.

IV. **PREPARATION OF PLATES:** Wash plates with alkaline detergent composed of 50% TSP and 50% sodium meta silicate and hot water. Dishes must be thoroughly rinsed and clean. Dry in oven at 80-85°C. Store at room temperature protected from soil until ready for use.

V. **WATER HARDNESS:** Hard water should be made in accordance with the U. S. Navy Bureau of Ships Manual 51-1-19, August 15, 1946: $0.2345 \text{ g CaCl}_2 \cdot 2 \text{ H}_2\text{O}$ and $0.2680 \text{ g MgCl}_2 \cdot 6 \text{ H}_2\text{O}$ dissolved in one liter distilled water gives 300 ppm hard water; and 167 ml of this solution diluted to one liter with distilled water gives 50 ppm water. Both soft water (50 ppm) and hard water (300 ppm) are recommended for tests.

VI. **PREPARATION OF WASHING SOLUTION:** (a) Use of 0.10% detergent on an "as is" basis. (0.10 g. per 100 ml.) (b) Dissolve 4.0 g. detergent in one liter of water at 115°F. and transfer to dishpan. Add the other three liters from a height of 24 in. above pan through a $\frac{1}{2}$ gallon funnel. Let stand 30 seconds.

VII. **WASHING TECHNIQUE:** Place two soiled plates in pan at one time. Wash individually in normal fashion with dishcloth. It is not necessary to maintain temperature of wash solution.

VIII. **END-POINT:** Wash to suds end-point. This end point is reached when only a thin layer of suds is visible over approximately one-half of the area of the dishpan. Record the number of test plates to reach this end-point.

METHOD B

I. **SCOPE:** This method is designed to compare the relative amounts

of foam (or suds) and to give some indication of detergency qualities of high foaming type liquid detergents for hand dishwashing. This is a practical type laboratory test procedure employing actual washing technique under controlled conditions.

II. **MATERIALS:** (a) Surface—Regular dinner plates (in good physical condition) about nine inches in diameter. (b) Dishpan—conventional. (c) Weighted Brush—a No. 50 utility brush with handle cut off. Total weight of brush is adjusted to $3\frac{3}{4}$ lbs. by attaching a lead weight by means of brass screws. (d) A filtered ultraviolet light source mounted in a closed box. (e) 1" mesh screen of suitable strength, stainless steel or rubber covered. (f) A 4000 ml pear shaped separatory funnel (Corning No. 6340) graduated at the 4 and 3 liter volumes.

III. **STANDARD SOIL:** (a) 90.0 gm. Edible Tallow (Swift & Co.), 10.0 gm. Corn Oil (Mazola Brand), 0.5 gm. Optical Dye (Calcofluor RWP). Since different lots of fats vary somewhat in composition and ease of removal, a large supply should be purchased at one time for uniformity and stored in the refrigerator. Each new sample of fat should be checked against a reference dishwashing detergent to obtain relative values. A titre of 42.2° on the mixed fats gives proper consistency. (b) Preparation of Soil: Prepare soil consisting of mixture of 90 parts Swift's edible grade tallow, 10 parts Mazola corn oil and 0.5 parts Calcofluor RWP. Heat in a water bath at 70°C. Stir to dissolve the dye completely and maintain at this temperature during the time of use. Age soil overnight before using.

IV. **PREPARATION OF PLATES:** (a) Wash dinner plates thoroughly to remove all visible soil using an alkaline detergent composed of 50% TSP and 50% sodium meta silicate and hot water. Dishes are thoroughly rinsed. Dry in oven at a temperature of about 80-85°C. Soil plates while still warm to facilitate even distribution of soil. (b) Soiling of Plates: Place 5.0 ml. of the soil on warm plate (50-60°C.). Rotate plate to spread fat on the entire bottom of the plate. Let soil harden on a level surface and age overnight at room temperature. Use plates aged just one day.

V. **WATER HARDNESS:** Hard water should be made in accordance with the U. S. Navy Bureau of Ships Manual Fl-1-19, August 15, 1946: $0.2345 \text{ g CaCl}_2 \cdot 2 \text{ H}_2\text{O}$ and $0.2680 \text{ g MgCl}_2 \cdot 6 \text{ H}_2\text{O}$ dissolved in one liter distilled water gives 300 ppm hard water; and 167 ml of

this solution diluted to one liter with distilled water gives 50 ppm water. Both soft water (50 ppm) and hard water (300 ppm) are recommended for tests.

VI. **PREPARATION OF WASH SOLUTION:** (a) Add proper amount of detergent for 3 liters of use solution to a dry dishpan. (b) A 4000 ml pear shaped separatory funnel (Corning No. 6340) graduated at the 4 and 3 liter volumes is placed at a height of 26 in. from the bottom of the pan. This funnel is filled with water at the appropriate temperature to the 4 liter mark. One liter is drawn off into the dishpan. The sample of detergent is completely dissolved in this water by slow agitation of the finger generating as little foam as possible. The remaining 3 liters is then added by opening the stopcock fully and rotating the dishpan two complete turns during the emptying of the separatory funnel. This generates the foam. This procedure will insure complete solution of slowly dissolving products. Measure and record temperature of solution.

VII. **WASHING TEST PIECES:** (a) At zero time, place a soiled test piece with the eating surface up in washing solution in dishpan. (b) After 55 seconds soaking, place a second soiled test piece underneath the first one placing a stainless steel or rubber covered 1" mesh screen of suitable strength to keep the two test pieces from touching each other. (c) At exactly 60 seconds from zero time hold the first test piece by the edge with the left hand and brush 5 times (with a rotary motion) with the weighted utility brush (Note 1) in one direction and 5 times in the reverse direction. Invert the plate and repeat this brushing operation on the back side of the plate (Note 2). (d) Rinse test piece for a total of five seconds under cold running tap water. A running cold water rinse is used as the cold water supply is usually more constant in temperature. Furthermore, a cold water rinse will give a more direct measure of detergency by minimizing any possible detergent effect of rinse. (e) Rack plates to drain and dry. (f) At one minute and 55 seconds from zero time place a third soiled test
(Turn to Page 275)

Note 1: To provide uniform brushing, a weighted brush is used. No extra force is used other than to provide the rotary motion. The brush is presoaked in water for 30 minutes before using.

Note 2: The entire brushing procedure should be timed so that it is completed between 22-25 seconds, allowing about one second for each complete rotation of the brush.

*Prepared by the Sub Committee on Lather of the Soap, Detergents and Sanitary Chemical Products Division, and approved as alternate methods by the Scientific Committee of the Chemical Specialties Manufacturers Association, New York, December 16, 1958.

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General requirements of U. S. Federal Specifications for soaps, cleaners, detergents, polishes, insecticides, etc.

Insecticides, Aerosol, Low Pressure (12-Ounce Dispenser) Q-1-508

Insecticides aerosol, 12-ounce dispenser, covered by this specification are intended to be used against mosquitoes, flies and other small flying insects.

Insecticides aerosol covered by this specification shall be of the following types:

Type I.—Allethrin and DDT

Type II.—Pyrethrins and DDT

The insecticide shall comprise the following ingredient materials in the specified proportions by weight:

TYPE I.

Ingredients	Percent
Allethrin ¹ , conforming to spec., minimum	0.6
Dichlorodiphenyltrichloroethane conforming to spec., minimum	2.0
Aromatic petroleum derivative solvent, conforming to spec., minimum	5.0
Deodorized kerosene ¹ , conforming to spec., minimum	7.4
Dichlorodifluoromethane, conforming to spec., maximum...	42.5
Trichloromonofluoromethane, conforming to spec., maximum...	42.5

¹ The deodorized kerosene percentage content shall include the related products from the technical allethrin.

TYPE II.

Ingredients	Percent
Pyrethrum extract, conforming to spec., minimum	2.0
Dichlorodiphenyltrichloroethane, conforming to spec., minimum	2.0
Piperonyl butoxide technical, conforming to spec., minimum...	1.0
Aromatic petroleum derivative solvent conforming to spec., minimum	5.0
Deodorized kerosene, conforming to spec., minimum	5.0
Dichlorodifluoromethane, conforming to spec., maximum...	42.5
Trichloromonofluoromethane, conforming to spec., maximum	42.5

The pyrethrum extract shall contain 20 percent pyrethrins.

The dichlorodiphenyltrichloroethane (DDT) shall conform in all details to grade B as specified with not more than

.01 percent trichloromonofluoromethane insoluble material.

Piperonyl butoxide technical shall conform to the requirements.

The aromatic petroleum derivative solvent shall be a purified petroleum product. The product shall be certified by the manufacturer as causing no irritation to human skin. The product shall conform to the following requirements.

ColorNot more than 4.0
Union Colorimeter

Specific gravity API. 9-22

Water contentNone

Flash point (open cup), minimum150°F.

Initial boiling point, minimum300°F.

Final boiling point...650°F.

Solvent power for

DDT at 74°F.....35 gm./100 mL

The deodorized kerosene: shall meet the following requirements:

AppearanceClear and free from suspended matter.

ColorNot less than plus 20 (Saybold chromometer).

Distillation range..Initial boiling point not less than 350°F., end point not above 500°F.

Residue from distillationNeutral.

Flash pointNot less than 125°F. (Closed cup).

OdorFree from kerosene odor and practically free from all odor.

Residue odorNone.

Unsulfonated

residue96 percent, minimum.

The dichlorodifluoromethane shall conform to the detailed requirements specified in federal specification.

The trichloromonofluoromethane shall conform to the detailed requirements specified in federal specification.

The technical allethrin shall meet the following requirements:

Each container shall contain not less than 12 ounces of the insecticide, propellant and solvent mixture.

Each container when filled with the insecticide, propellant and solvent mixture shall contain not more than 80 ppm. of water.

The finished insecticide, propellant and solvent mixture in type I shall contain not less than 0.6 percent allethrin based on the analysis of the technical allethrin.

The finished insecticide, propellant and solvent mixture shall in type II contain not less than 0.40 percent by weight of pyrethrins.

The finished insecticide, propellant and solvent mixture shall, in type I and type II, contain not less than 2.0 percent by weight of dichlorodiphenyltrichloroethane (DDT).

The insecticide shall be mixed by a suitable process to produce a

ONLY the essential requirements of these government specifications have been extracted in this summary. Copies of the complete specifications, including details of packaging, methods of analysis, etc., are available from the General Services Administration, Washington, D. C. The specifications listed are the latest versions as of the date of compilation of this edition of the Blue Book. Readers are cautioned, however, that further changes are being made periodically, and that the latest amended versions of all specifications should be consulted in filling government orders. Federal Test Method Standard #536b titled "Soap and Soap-Products (Including Synthetic Detergents); Methods of Sampling and Testing," particularly should be consulted.

PIPERONYL BUTOXIDE REQUIREMENTS (O-I 508)		Max.	Min.
alpha [2-(2-butoxyethoxy) ethoxy]- 4, 5-methylenedioxy-2-propyltoluene, percent	80	..	
Specific gravity at 25°C. ¹	1.05	1.07	
Refractive index at 20°C. ²	1.497	1.512	

¹ Determined by any suitable method accurate to 0.001.

² Determined by an Abbe Refractometer or equivalent instrument at 20° C.

ALLETHRIN REQUIREMENTS (O-I 508)

	Requirement (percent by weight)
Allethrin, minimum	75.0
Chrysanthemic acid, maximum	2.7
Chrysanthemic acid chloride, maximum	0.3
Chrysanthemic anhydride, maximum	5.0
Dichlorodifluoromethane insoluble, maximum	0.5

homogenous mixture. Dispenser filling shall be carried out at a relative humidity equivalent of not more than 30 percent at 70°F.

Insecticides, Liquid, Space Spray O-I-551a

The insecticides covered by this specification are designed to spray in enclosed spaces either directly on flies and mosquitoes or into air in which they are flying.

The insecticides shall be of but one grade, and the following types (in deodorized kerosene), as specified:

Type I.—Pyrethrins and DDT.

Type II.—Allethrins and DDT.

Type III.—Pyrethrins.

The insecticide shall comprise the ingredient materials in the specified proportions in the accompanying table.

When specified in the contract or purchase order, other synergists may be substituted for piperonyl butoxide.

Pyrethrum extract shall dissolve in deodorized kerosene to form a clear solution. The pyrethrin content shall be determined as specified.

Piperonyl butoxide shall be of the technical grade containing not less than 80 per cent alpha-[2-(2-butoxyethoxy) ethoxy]-4, 5-methylenedioxy-2-propyltoluene, also named (butyl carbitol) 6-propyl piperonyl ether. It shall conform to the following requirements:

	Min.	Max.
Specific gravity, 25°/25°C.	1.05	1.07
Refractive index at 20°C.	1.497	1.512

The piperonyl butoxide content of the finished insecticide shall be determined as specified.

DDT shall conform to the requirements for Grade B of Federal Specification. The finished insecticide shall be tested as specified and shall contain 5 mg. ± 0.25 organic chlorine per gram of solution.

The technical grade allethrin shall contain not less than 75 per cent by weight of allethrin nor more than 8.0 per cent total free acidity calculated as chrysanthemum monocarboxylic acid. The finished insecticide shall contain not less than 0.15 per cent by weight of allethrin based on analysis of technical grade and weight records.

The odor neutralizer shall be of a grade in commercial use and shall impart

a pleasing or neutral odor to the finished insecticide. Only those odor neutralizers which have been approved at time of invitation for bids will be permitted.

Deodorized kerosene shall be free from kerosene odor and practically free from all odor, shall be clear and free from suspended matter and shall conform to the requirements in the accompanying table.

Insecticide, 75 Percent DDT Water-Dispersible Powder O-I-568

This specification covers one grade of insecticide, water-dispersible powder,

75 per cent dichlorodiphenyltrichloroethane (DDT).

It shall be prepared from dichlorodiphenyltrichloroethane (DDT) together with such biologically inert modifying and conditioning agents as are needed to meet the requirements.

The finished insecticide shall contain not less than 36.0 per cent organic chlorine when tested as specified, shall be free flowing, of a light color such as white, cream, or light gray, and shall be readily wettable with water to provide dispersions suitable for use as residual effect insecticide sprays.

Any foam built up in the preparation of test suspensions shall not have such copiousness, stability, or other properties as would prevent the completion of the tests.

The surface-mean particle diameter of the insecticide powder shall be not greater than 5.0 microns.

Not less than 98 per cent of the insecticide powder shall pass through a 74-micron (U. S. Standard No. 200) sieve, and not less than 100.0 per cent shall pass through a 1,000-micron (U. S. Standard No. 18) sieve.

Not less than 95 per cent of the insecticide powder incorporated in a suspension shall pass through a 250-micron (U. S. Standard No. 60) sieve.

A suspension prepared and tested as specified shall have a pH value not lower than 5.0 and not higher than 10.0.

INGREDIENT MATERIALS (O-I-551a)

	<i>Per Cent by Weight</i>	
	<i>Minimum</i>	<i>Maximum</i>
Type I:		
Pyrethrins	0.08	0.12
Piperonyl butoxide, technical	0.75	0.85
DDT	0.95	1.05
Odor neutralizer	0.04	0.06
Deodorized kerosene	To make 100 per cent	
Type II:		
Allethrin	0.15	0.18
Piperonyl butoxide, technical	0.75	0.85
DDT	0.95	1.05
Odor neutralizer	0.04	0.06
Deodorized kerosene	To make 100 per cent	
Type III:		
Pyrethrins	0.08	0.12
Piperonyl butoxide, technical	0.75	0.85
Odor neutralizer	0.04	0.06
Deodorized kerosene	To make 100 per cent	
Deodorized kerosene	To make 100 per cent	
Deodorized kerosene	To make 100 per cent	
Deodorized kerosene	To make 100 per cent	

DEODORIZED KEROSENE REQUIREMENTS (O-I-551a)

Distillation range:	
Initial boiling point, minimum, °F.	350
End point, maximum, °F.	500
Flash point, minimum, °F.	125
Color	Not more than extremely slight discoloration 25 Saybolt minimum
Residual odor	None
Unulfonated residue, per cent, minimum	96

If pH is 8.0 or above, not more than 10.0 ml. of half normal by hydrochloric acid shall be required to neutralize the alkalinity of a 20.0-gram sample when titrated.

The product shall be clean and uniform and free from any defects which may impair its utility.

**Insecticide-Concentrate; Liquid
Water-Emulsifying
(DDT-Nonexplosive Solvent—
Emulsifying Agent)
O-I-558**

Liquid insecticide-concentrate covered by this specification shall be of one grade as specified.

It shall contain at least 25.0 grams of DDT conforming to the requirements for grade B of Federal Specification per 100 milliliters, a suitable emulsifier in such concentration as will enable the concentrate to meet the requirements of this specification, and a suitable solvent.

When specified in invitation for bids, each bidder shall submit a 1-gallon sample of the insecticide-concentrate which he proposes to furnish, for the purpose of determining compliance with the requirements of this specification.

The insecticide-concentrate shall be clear, homogeneous, and free from particles of undissolved DDT crystals or foreign matter. The appearance of the concentrate shall not be affected when tested as specified.

It shall contain a minimum of 120 milligrams of chlorine per milliliter, when tested as described.

When tested as described, the emulsions formed shall show not more than 5 milliliters of separation when tested at 80°F., nor more than 10 milliliters of separation when tested at 120°F., 30 minutes after formation and after reformation.

The flash point of the finished concentrate shall be not below 140°F.

There shall be no residual stain when the insecticide-concentrate is tested.

There shall be no more than a slight, mild residual odor when tested.

The solvent shall have an initial point not less than 300°F., and an end point not higher than 550°F.

The insecticide-concentrate shall cause no more than a slight discoloration of mild steel strips and shall cause no crazing or softening of strips of polymethyl methacrylate, when tested as described.

**Insecticide Powder, Dusting
O-I-578**

Insecticide dusting powder covered by this specification shall be of but one grade as specified and shall contain only the material specified.

The finished insecticide powder shall be of free-flowing material devoid of lumps, of such fineness that not less than 99 per cent shall pass the U. S. Standard No. 80 (177-micron) sieve (dry test).

The finished insecticide powder shall have a surface mean particle diameter of not more than 5 microns.

It shall consist of 10 per cent by weight of active ingredient and the re-

mainder of diluent. When specified, 0.1 per cent by weight of the coloring agent 1-(2,4-dinitrophenylazo)-2-naphthol shall be added.

The active ingredient shall be technical-grade dichlorodiphenyltrichloroethane, hereinafter referred to as DDT.

Insecticide powder shall contain not less than 9.5 nor more than 10.5 per cent by weight of DDT.

The melting point of the DDT which has been extracted from the insecticide powder in the manner described, shall be not less than 100°C.

The melting point of a mixture of equal weights of the extracted DDT product and pure recrystallized DDT shall be not less than 100°C.

When specified in the contract on order, the coloring agent shall be a coal-tar dyestuff which will yield a flesh color to the finished insecticide. The dyestuff shall be 1-(2,4-dinitrophenylazo)-2-naphthol which shall be certified by the Food and Drug Administration as meeting specifications for Drug and Cosmetic Orange No. 17 of Food and Drug Administration Service and Regulatory Announcement No. 3 "Coal Tar Regulations" of September, 1940. The finished insecticide shall yield no color in the water extract.

The diluent shall be either talc or pyrophyllite.

The talc shall be of the laminar type and of such degree of fineness that not less than 90 per cent will pass a U. S. Standard No. 325 (44-micron) sieve (wet test) and not less than 99 per cent will pass a U. S. Standard No. 100 (149-micron) sieve (dry test).

The pyrophyllite shall be of the same degree of fineness as specified for talc.

No more than 1.5 per cent by weight of the DDT present in the finished insecticide powder shall be decomposed after 1 hour.

The manufacturer shall, by a blending operation just prior to the filling of cans, establish uniform batches of not less than 2,000 pounds. These batches shall be given a control or batch number and shall be numbered serially.

**Insecticide, Lindane
(Water-Dispersible Powder)
O-I-535**

The insecticide covered by this specification is a 75 per cent lindane water-dispersible powder designed to provide a water dispersion suitable for use as a residual effect spray for the control of mosquitoes, flies, sand flies, mites (chiggers), ticks, and fleas. It shall be of one type and one grade.

The insecticide shall be composed of lindane and inert ingredients, as follows:

The insecticide shall be compounded to contain a concentration of 75.0 per cent lindane by weight, and the finished insecticide shall contain not less than 534 mg. nor more than 570 mg. of organically bound chlorine per gram.

The lindane shall be the gamma isomer of 1,2,3,4,5,6-hexachlorocyclohexane of a purity not less than 99 per cent. It shall be a white crystalline substance

having a melting point not less than 112°C.

The inert ingredients shall be such biologically inert diluting, modifying, and conditioning agents, as are free of organically bound chlorine.

The insecticide shall be a free flowing powder, readily wettable with water and shall be of a light color such as white, cream, or light gray.

In the preparation of test suspensions of the insecticide powder, any foam produced shall not have such coiousness, stability, or other properties as would prevent the completion of the tests specified.

The surface-mean particle diameter of the insecticide powder shall not be greater than 5.0 microns.

Not less than 98 per cent of the insecticide powder shall pass through a 74-micron (No. 200) U. S. Standard sieve, and not less than 100.0 per cent shall pass through a 1-mm. (No. 18) U. S. Standard sieve.

Not less than 95 per cent of the insecticide powder incorporated in a suspension shall pass through a 250-micron (No. 60) U. S. Standard sieve.

A suspension of the insecticide powder shall have a pH value not lower than 5.0 and not higher than 9.0. If pH is above 8.0, not more than 10.0 ml. of half normal hydrochloric acid shall be required to neutralize the alkalinity of a 20.0 gm. sample when titrated.

The product shall be clean and uniform, and free of any defects which might impair its utility.

**Insecticide, Lime-Sulfur, Liquid
Concentrate
O-I-532a**

Insecticide, lime-sulfur, liquid concentrate covered by this specification is suitable for the control of insects and fungi on trees, shrubs, and other growing plants.

The insecticide shall be of but one type and one grade.

Insecticide, lime-sulfur, liquid concentrate shall consist of an orange-red solution prepared by boiling lime, sulfur, and water together and shall have the following properties: Per cent by weight: calcium polysulfides, minimum 29; maximum 32; calcium thiosulfate, maximum 2.5; and specific gravity at 60°/65°F., minimum 1.270, maximum 1.295.

The finished product shall be clean, free from undissolved material and free from defects which may impair its utility.

**Insecticides, Water Emulsifiable Oil
O-I-588a**

The water emulsifiable petroleum oils covered by this specification are designed to be diluted with water and used as sprays for the control of scale insects, aphids, and similar pests on trees and shrubs.

The water emulsifiable petroleum oils covered by this specification shall be of one grade and the following types:

Type I.—Dormant-plant spray.

Type II.—Summer-spray.

The water emulsifiable oils shall be liquids and shall contain the amount

COMPOSITION OF DORMANT-PLANT SPRAY, TYPE I

Ingredient	Percent by weight	
	Minimum	Maximum
Dormant-plant spray oil, conforming to 3.1.1	95.0	....
Emulsifier, conforming to 3.1.3 .....	....	5.0

COMPOSITION OF SUMMER SPRAY, TYPE II

Ingredient	Percent by weight	
	Minimum	Maximum
Summer spray oil, conforming to 3.1.2	95.0	....
Emulsifier, conforming to 3.1.3 .....	....	5.0

PHYSICAL REQUIREMENTS OF DORMANT-PLANT SPRAY OIL

	Requirement	
	Minimum	Maximum
Viscosity (Saybolt at 100°F.), seconds	90	120
Unsulphonated residue (percent by weight)	80	....
Distillation range: Distills up to 636°F., percent	10	25

PHYSICAL REQUIREMENTS OF SUMMER SPRAY OIL

	Requirement	
	Minimum	Maximum
Viscosity (Saybolt at 100°F.), seconds	50	80
Unsulphonated residue (percent by weight)	90	....
Distillation range:		
Distills up to 520°F., percent.....	10	....
Distills up to 665°F., percent.....	80	....

of ingredients specified in the table for type I, and in table II for type II, as calculated from weight records.

The dormant-plant spray oil shall conform to the requirements in the table.

The summer spray oil shall conform to the requirements in the table.

The emulsifying agent shall be completely soluble in the oil, shall not be phytotoxic, and shall produce an emulsion with water that will not separate visible drops of oil on standing for 10 minutes at 80° ± 5°F.

The finished product shall be clean, free from undissolved material and free from any defects which may impair its utility.

Insecticide, Sulfur, Dusting Powder O-I-583a

Insecticide, sulfur, dusting powder covered by this specification is suitable for the control of mites, insects, and fungus diseases on ornamental shrubs and other plants.

The insecticide shall be of but one type and one grade.

Insecticide, sulfur, dusting powder shall be a finely ground free flowing powder containing not less than 92 per

cent sulfur by weight. Not more than 8 per cent shall consist of conditioning agents and inert material.

The surface-mean particle diameter of the finished insecticide shall not be greater than 12 microns.

Not less than 98 per cent of the finished insecticide powder shall pass through a No. 325 U. S. Standard sieve (44 micron) by the wet test.

Insecticide; Liquid (Fly-Spray) O-I-541a

This spray is intended primarily for use against flies but if properly and thoroughly applied directly to the insects, it will control mosquitoes, bedbugs, ants, fleas, and clothes moth larvae.

The manufacturer is permitted latitude in the selection of raw materials and processes of manufacture to meet the requirements of this specification.

The liquid insecticide shall not cause irritation to man nor be poisonous to man when applied in the usual manner in the destruction of house flies, shall have no greater detrimental action upon metal or paint (paint, enamel, varnish, lacquer, etc.) surfaces than the

specified solvent, and shall have no objectionable odor.

It shall be formulated from a petroleum distillate base, free from kerosene odor and practically free from all odor, and shall be clear and free from suspended matter and shall contain other ingredients to make its performance equal to or to exceed the performance requirements.

The liquid insecticide shall meet the following requirements:
Initial boiling point...Not below 350°F.
End pointNot above 530°F.

The flash point shall be not less than 125°F. (closed cup).

When tested in accordance with specification, no residual odor shall be present.

It shall meet staining properties and corrosion tests specified.

The liquid insecticide shall be not more than percentage points (units of difference between the percentage kill or knock-down by the "comparison" insecticide and the percentage kill or knock-down by the unknown) below the "comparison" insecticide in "average percentage knock-down" and shall be 16 percentage points or more above the "comparison" insecticide in "average percentage kill" when tested in accordance with the method specified.

Rodenticide, Warfarin, Concentrates O-R-507a

Rodenticide covered by this specification is suitable for the control of commensal rats and mice. It shall be of the following classes: Class I.—Rodenticide, warfarin 0.5 per cent; Class II.—Rodenticide, warfarin 4.0 per cent.

The finished rodenticide shall be a fine, free-flowing powder devoid of lumps. It shall be of such fineness that not less than 95 per cent shall pass through a 100-mesh U. S. Standard screen (dry test).

The composition of the finished rodenticide shall conform to the requirements shown in the table.

COMPOSITION: O-R-507a

Ingredient	Class I Per Cent	Class II Per Cent
Warfarin	0.50-0.55	4.0-4.4
Pigment	0.90-1.10	0.90-1.10
Cornstarch	Remainder	Remainder

The active ingredient of rodenticide warfarin concentrates shall be technical grade 3-(alpha-acetonylbenzyl)-4-hydroxy coumarin, hereinafter referred to as warfarin. This technical product shall be a fine, white or creamy white powder, melting at 159°-163°C., and containing not less than 98 per cent warfarin. It shall be free of objectionable odor or taste which might limit its suitability for the proposed end use.

Rodenticide warfarin class I shall contain not less than 0.5 per cent nor more than 0.55 per cent warfarin, and rodenticide warfarin class II shall con-

tain not less than 4.0 per cent nor more than 4.4 per cent warfarin.

The pigment shall be a Nile green color, adequate for its proposed end use, and approved by the U. S. Department of the Interior, Fish and Wildlife Service.

The cornstarch shall conform to the requirements of the Pharmacopoeia of the United States. Percentage starch content shall be determined.

The finished rodenticide powder shall not lose more than 11.0 per cent of its weight when tested.

The toxicity and acceptability of the finished rodenticide powder shall be such that it yields a test score of not less than 80 when assayed as described.

The method employed in making the rodenticide powder shall be in accordance with best commercial practice. The product shall be clean, uniformly blended, and free of defects which may impair its utility.

Rodenticide; Fumigant Dust (42 Percent Calcium Cyanide Dust) O-R-501

Fumigant dust rodenticide covered by this specification shall be of one grade. A technical grade of fumigant dust rodenticide shall be essentially produced in accordance with best commercial practice.

The chemical and physical properties shall conform to the following requirements: Calcium cyanide—42.0 per cent, min.; Particle size—98.0 per cent shall pass a 100-mesh U. S. standard screen; Inert material—58.0 per cent, maximum.

Rodenticide; Bait, Anticoagulant O-R-00500a Interim

This specification covers one type of rodenticide bait, anticoagulant which is suitable for the control of commensal rats and mice.

The rodenticide shall consist of a chemical anticoagulant which may be warfarin, pival, diphacinone, PMP, or fumarin suitably compounded with petrolatum, sugar, rolled oats and a dye, the admixture conforming to the compositional requirements given in the table.

Pival shall be the pure chemical 2-pivalyl 1, 3-indandione. This pival shall be derived from a technical product which shall be a fine yellow or brownish-yellow powder, melting at 107°-110°C., and containing not less than 98 percent pival. It shall be free of objectionable odor or taste which might limit its suitability for the proposed end use.

Warfarin shall be the pure chemical 3—(alpha-acetonylbenzyl) - 4 - hydroxycoumarin. This warfarin shall be derived from a technical product which shall be a fine white or creamy white powder, melting at 159°-163°C., and containing not less than 98 percent warfarin. It shall be free of objectionable odor or taste which might limit its suitability for the proposed end use.

Diphacinone shall be the pure chemical 2-diphenylacetyl- 1, 3-indand-

COMPOSITION (O-R-00500a)

Ingredient	Percent	
	Minimum	Maximum
<i>Options</i>		
1. Diphacinone	0.005	0.0055
Anticoagulant:		
2. Fumarin	0.025	0.028
3. Pival	0.025	0.028
4. Warfarin	0.025	0.028
5. PMP	0.05	0.055
Liquid petrolatum	4.8	5.2
Sugar	4.8	5.2
Dye	0.5	—
Breakfast rolled oats	Remainder	

ione. This diphacinone shall be derived from a technical product which shall be a yellow crystalline powder, melting at 145°-147°C., and containing not less than 98 percent diphacinone. It shall be free of objectionable odor or taste which might limit its suitability for the proposed end use.

PMP shall be the pure chemical 2-isovaleryl-1, 3-indandione. This PMP shall be derived from a technical product which shall be a yellow powder, melting at 65°-67°C., and containing not less than 98 percent 2-isovaleryl-1, 3 indandione. It shall be free of objectionable odor or taste which might limit its suitability for the proposed end use.

Fumarin shall be the pure chemical 3 - (alpha-acetonylfurfuryl) - 4 - hydroxycoumarin. This fumarin shall be derived from a technical product which shall be a fine white or creamy white powder, melting at 120°-123°C., and containing not less than 98 percent fumarin. It shall be free of objectionable odor or taste which might limit its suitability for the proposed end use.

The liquid petrolatum shall be medicinal grade mineral oil, with a specific gravity of not less than 0.83 nor more than 0.86.

The sugar shall conform to the requirements of type I of Federal Specification.

The dye shall be an oil-soluble, brilliant red dye, approved by the Fish and Wildlife Service. It shall be equivalent to Flaming Red Dye No. G305, manufactured by the Ox Color Works, New York, N. Y.

The rolled oats shall conform to the requirements for type I, Regular, Rolled Oats, as specified.

Not more than 30 percent of the finished rodenticide shall pass through a No. 20 U. S. Standard woven-wire cloth sieve.

The finished rodenticide shall not lose more than 12 percent of its weight when tested as specified.

The toxicity and performance of the finished rodenticide shall be such that not more than 20 percent of the test animals shall survive when the product is tested as specified.

The finished rodenticide shall comply with the applicable provisions of the Federal Insecticide, Fungicide and Rodenticide Act.

Printed or mimeographed instruction sheets containing the following in-

formation shall be enclosed in each intermediate container: (1.) Do not breathe the dust or swallow any of the poison. Do not smoke or eat while handling the poison. Keep personnel contact with the rodenticide at a minimum. (2.) Keep all equipment labeled plainly, wash it thoroughly after use, and do not employ it for other purposes. (3.) Wash hands thoroughly after handling the poisoned bait.

Rodenticides, containing warfarin, pival, diphacinone, PMP, and fumarin reduce the blood coagulation rate and death ensues in most cases from internal hemorrhages. At concentrations recommended for rat and mouse control, warfarin, pival, diphacinone, PMP, and fumarin apparently are not detected, or, if so, their presence in food baits are not objectionable to rats and mice. It has been a frequent observation, both in the laboratory and in the field, that rats continue to attempt to feed on the baits when they are under the influence of the drug to such an extent that they lack the strength to stand.

This rodenticide will not give effective control when applied in a single dose, but must be ingested several times (usually 5 or more) on successive days. These feedings need not be on consecutive days but should occur within a 10-14 day interval.

The control of rats, including roof rats, and house mice, has been obtained through the use of diphacinone, warfarin, pival, PMP, or fumarin baits, described in this specification.

Exposure of baits should be made by establishing an adequate number of protection bait stations. This can be accomplished by placing open trays of bait in rooms or areas about premises where domestic animals and small children can be excluded or through the use of properly constructed bait boxes. In many instances baits can be protected by improvised means with materials available on the premises. This is especially true where it is possible to employ scrap lumber for this purpose.

Feeding stations should be inspected at frequent intervals for the purpose of replenishing the bait supply where necessary. The frequency of inspections and size of bait placements will, of course, depend upon the degree of infestation encountered and in some instances daily servicing of the bait stations may be required during the first

4-5 days of a treatment. Bait consumption and rat activity usually drop markedly about 5 days after a rat population begins to feed on baits. Control is usually achieved in 10-14 days after feeding begins. Baits should be kept dry during use to maintain maximum acceptability.

It is often desirable to maintain properly protected bait stations with semi-permanent baits after control has been attained on premises which are particularly vulnerable to re-invasion.

Four to eight ounces of bait are suggested as the amount to be placed in each feeding station. Subsequent inspection will determine the correct amount to be added to each station.

In general, the same exposure technique should be used in employing baits for the control of mice as outlined for rat control; the principal difference, however, being that a larger number of placements should be made in areas in which the mice are known to feed. Those feeding stations may in some cases consist of only tablespoonful quantities.

Inspections should be made frequently enough throughout a treatment to maintain a continuous supply of bait available at each placement.

Warfarin, pival, diphacinone, PMP, and fumarin probably will kill any warm-blooded animal if consumed in the proper dosage over an adequate period of time. However, the concentration used in rodent control requires that on the basis of a single dose ingestion, relatively large quantities of the bait be consumed before domestic animals are seriously endangered. On the other hand, if daily feeding on warfarin, pival, diphacinone, PMP, and fumarin by domestic animals is allowed, much smaller amounts may be fatal. In one of the 521 exposures analyzed, a cat was said to have died from hemorrhage as a result of preying on rats and mice killed from feeding on warfarin, pival, diphacinone, PMP, and fumarin baits. In view of this possibility, it is recommended that, where possible, dead rats and mice killed through the ingestion of these rodenticides be disposed of in a manner such that cats and dogs will not have access to them.

Warfarin, pival, diphacinone, PMP, and fumarin are anticoagulant chemicals, which, if taken accidentally by humans or domestic animals, may increase the clotting time of the blood and cause hemorrhage. Such hemorrhages may be either internal or external and often hematoma are visible under the skin of animals affected.

In the case of accidental ingestion by humans, vomiting should be induced at once and a physician called. Treatment by the physician should include transfusion with whole blood and intravenous and oral administration of Vitamin K preparations as in the case of hemorrhage caused by Dicumarol.

The method employed in making the rodenticide shall be in accordance with best commercial practice. The product shall be clean, uniformly blended, and free of defects which might impair its utility.

P-S-311

Scouring Compound for Floors

This specification covers three types of scouring compounds for floors: Type I.—for fine marble floors; Type II.—for tile, ceramic or terrazzo floors; and Type III.—soap scouring compound.

Scouring compound for floors shall be white or light gray in color, unscented, and of uniform composition.

The composition of scouring compounds shall comply with the requirements specified in the Table.

The insoluble siliceous matter shall comply with the fineness requirements specified in the Table II. It shall not contain any bentonites.

Soap, Built, Higher-Tighter, Powdered P-S-563b

This specification covers a powdered, high-titer, built soap that is suitable for high-temperature laundering of all types of wearing apparel and

linens except silk and woolsens.

The composition of the soap shall conform to the requirements shown in the table.

The percentage of matter volatile at 105° C. shall be calculated on the basis of the soap as received, but all other constituents shall be calculated on the basis of material containing 16.0 percent of matter volatile at 105° C.

Soap, Grit (Hand, Paste and Powder) P-S-577

This specification covers paste and powder hand soap for removing oil, grease, and other occupational soils.

The soap shall be of the following types, as specified: Type I.—Hand soap, grit paste; Type II.—Hand soap with mineral abrasive; Type III.—Hand soap with vegetable abrasive and lanolin.

Type I soap shall be a uniform mixture of thoroughly saponified soap and mineral abrasives, in paste form.

COMPOSITION OF SCOURING COMPOUNDS (P-S-311)

	Type I Per Cent	Type II Per Cent	Type III Per Cent
Matter volatile at 105° ±2°C., maximum	10.0	10.0	6.0
Sum of sodium carbonate (Na ₂ CO ₃) and anhydrous soda soap and/or active anhydrous, salt-free synthetic detergent:			
Maximum	7.0	....	....
Minimum	2.0	2.0	....
Anhydrous soda soap and/or active anhydrous, salt-free, synthetic detergent:			
Maximum	....	....	10.0
Minimum	....	....	3.0
Carbonated alkali, calculated as sodium carbonate (Na ₂ CO ₃):			
Maximum	....	....	20.0
Minimum	....	....	6.0
Free alkali, calculated as sodium hydroxide (NaOH)			
Maximum	0.1	0.1	0.1
Insoluble siliceous matter:			
Maximum	95.0	95.0	90.0
Minimum	85.0	80.0	60.0

FINENESS OF INSOLUBLE SILICEOUS MATTER

	Type I Maximum Per Cent	Type II Maximum Per Cent	Type III Maximum Per Cent
Retained on —			
No. 60 U. S. standard sieve	1.0	1.0	1.0
No. 80 U. S. standard sieve	1.0	10.0	10.0
No. 100 U. S. standard sieve	1.0	....	....
No. 200 U. S. standard sieve	5.0	....	....

COMPOSITION — P-S-563b

Characteristics	Minimum	Maximum
Moisture and matter volatile at 105° C.	....	16.0
Sum of free alkali and total matter insoluble in alcohol (alkaline salts)	40.0	....
Matter insoluble in water	....	1.0
Titer of mixed fatty acids prepared from the soap.	39° C.	....
Material retained on No. 12 sieve	....	1.5
Material passing a No. 140 sieve	....	20.0
Rosin acids (based on the finished product)	....	None
Anhydrous soap content	50.0	....
Free alkali, calculated as NaOH	....	16.0

Composition (P-S-577)

Characteristics	Percent by weight					
	Type I		Type II		Type III	
	Min.	Max.	Min.	Max.	Min.	Max.
Matter volatile at 105° ± 2°C.....	55.0	.....	5.0	.....	12.0
Alkaline salts (calculated as sodium carbonate)	3.0	2.0	5.0	.....	7.7
Free alkali (calculated as sodium hydroxide)	0.1	.....	0.1	.....	0.1
Free acid (calculated as oleic acid)	0.1	.....	0.1	.....	0.1
Anhydrous soda soap	0.5	.....	0.5	.....	1.0
Lanolin (U.S.P. anhydrous)	8.0	.....	17.0	.....	24.5	.....
Matter insoluble in water	3.0	.....
Fineness of insoluble siliceous matter, percent retained on:	25.0	50.0	60.0	76.0	45.0	55.0
No. 40 sieve	1.0	.....	1.0	.....	.....
No. 60 sieve	10.0	.....	5.0	.....	.....
No. 80 sieve	30.0	.....	45.0	.....	.....
No. 100 sieve	35.0	.....	30.0	80	.....
No. 200 sieve	60.0	.....	60.0	.....	.....
Fineness of finished soap, percent retained on:
No. 20 sieve ¹	10.0	.....
No. 100 sieve	80.0	.....	.....
Rosin	5.0	.....	None
Sugar	None	.....	None	.....	None

¹Particles shall be soft and friable, not solid or hard. Bentonite shall not be included in the product.

This paste material shall not dry out or otherwise deteriorate under normal conditions of storage for a period of at least 6 months.

Type II soap shall be a uniform, free-flowing, nonstratifying mixture of thoroughly saponified soap and mineral abrasives, in powder form.

Type III soap shall be a uniform, free-flowing, non-stratifying mixture of clean corn meal, corn-cob meal, or a combination thereof, thoroughly saponified soap and lanolin, in powder form. The mixture shall contain no rosin, sugar, pine oil, nor mineral abrasives such as lava, pumice, sand, or quartz. Corn meal shall be degerminated.

Hand soap shall be mildly perfumed so as to produce a pleasant odor.

The hand soap shall conform to the accompanying table.

The hand soap shall produce not less than 100 ml. foam.

One-hundred ml. of solution of types II and III shall have a pH of between 9.0 and 10.5. The addition of 2 ml. of 0.1N hydrochloric acid to this 100 ml. of solution shall not reduce the pH to below 9.0 at 25° C.

**Soap, Grit (Cake)
P-S-571b**

Grit cake soap covered by this specification shall be of the following types: Type I.—For fine work (such as required for cleaning glass and enamel ware). Type II.—For rough work (such as required for scouring and scrubbing purposes).

Grit soap shall be made from high quality soap and abrasives, uniformly mixed. Small amounts of other ingredients may be added to improve the quality of the soap.

Each cake of grit soap shall weigh not less than 9 ounces nor more than 10 ounces.

COMPOSITION OF TYPE I GRIT SOAP (P-S-571b)

Ingredient	Per Cent by Weight	
	Maximum	Minimum
Moisture and matter volatile at 105° ± 2°C. ....	.....	5.0
Anhydrous soap	6.0	10.0
Alkaline salts (calculated as Na ₂ CO ₃) .....	.....	1.5
Free alkali (calculated as NaOH) .....	.....	0.1
Free acid (calculated as oleic acid) .....	.....	5.0
Sugar or other foreign matter	None	None
Matter insoluble in water	Remainder	Remainder

COMPOSITION OF TYPE II GRIT SOAP (P-S-571b)

Ingredient	Per Cent by Weight	
	Maximum	Minimum
Moisture and mater volatile at 105° ± 2°C. ....	.....	6.0
Anhydrous soap	8.0	12.0
Alkaline salts (calculated as Na ₂ CO ₃) .....	.....	4.0
Free alkali (calculated as NaOH) .....	.....	0.1
Free acid (calculated as oleic acid) .....	.....	0.5
Sugar or other foreign matter	None	None
Matter insoluble in water	Remainder	Remainder

SOAP; GRIT, HAND, CAKE (P-S-576b)

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 105°C.	25.0	.....
Total alkalinity of matter insoluble in alcohol (alkaline salts), calculated as sodium carbonate (Na ₂ CO ₃)	1.0	.....
Free alkali, calculated as sodium hydroxide (NaOH) .....	.1	.....
Insoluble siliceous material	35.0	25.0
Insoluble siliceous material retained on a No. 100 sieve	2.0	.....
Insoluble siliceous material retained on a No. 200 sieve	10.0	.....
Rosin	5.0	.....
Sugar and foreign matter	None	.....
Anhydrous soap .....	.....	35.0

Grit soap, type I, shall be white in color. Type II, shall be gray or tan.

The percentage of moisture and matter volatile at 105 ± 2°C. shall be computed and reported as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 4.0 per cent, in the case of type I and 5.0 per cent in the case of type II.

The material insoluble in water shall consist of not less than 85 per cent ground feldspar and shall be sufficiently fine that, when the soap and other soluble matter are extracted from the cake by digestion with water, 99 per cent of the material insoluble in water shall pass through a No. 100 sieve, and in the case of type I, 95 per cent shall pass through a No. 200 sieve.

Grit soap, type I, shall not scratch glass or vitreous enameled surfaces.

The average loss in weight of the soap on immersion in water shall be not more than 10 per cent for type I and not more than 5 per cent for type II.

**Soap: Grit, Hand, Cake
P-S-576b**

Hand grit soap shall be a cake soap containing clean, finely divided insoluble siliceous matter, as free as possible from water, uncolored, mildly perfumed unless otherwise specified, and well compressed in firm, smooth cakes.

COMPOSITION (P-S-00578)

	Minimum	Maximum
Moisture and matter volatile at 105°C.....percent	...	16.0
Sum of free alkali and total matter insoluble in alcohol.....percent	...	40.0
Matter insoluble in water.....do	...	1.0
Rosin.....	...	none
Anhydrous soap.....percent	50.0	...
Titer of mixed fatty acids prepared from the soap....	...	26°C.
Material passing No. 140 sieve.....percent	...	20.0
Materials retained on No. 12 sieve.....do	...	1.5

It shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 25 per cent.

Unless otherwise specified, each cake shall weigh not less than 8 ounces, nor more than 16 ounces.

**Soap, Laundry: Built, Low Titer, Powdered
P-S-00578
(Interim)**

This specification covers a low titer soap built with alkaline salts suitable for use at low temperatures. It shall be of one grade.

The composition of the soap shall conform to the requirements shown in the table.

The percentage of moisture and volatile matter shall be computed, and reported on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 16 per cent.

The soap shall be of a white or light amber color. When specified, the color of the soap furnished shall conform to that of the accepted sample.

The odor shall not be objectionable in the soap as received or in a solution of the soap in water at 100°F. The soap shall not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

**Soap, Laundry (Chip, Rosin-Type)
P-S-581b**

This specification covers rosin-type chip laundry soap for use in heavy-duty laundering, such as heavily-soiled occupational clothing, where high wash temperatures are required. It shall be of but one type.

The composition shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 15 per cent.

Laundry chip soap shall be a well-made, uniformly mixed soap in chip form, made from soda, rosin, and fats, and shall be of a uniform color. It shall dissolve readily in hot water.

The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water and not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

**Soap, Laundry (Granulated, Rosin-Type)
P-S-583b**

This specification covers rosin-type granulated laundry soap for use in heavy-duty laundering, such as heavily-soiled occupational clothing, where high wash temperatures are required. It shall be of but one type.

The composition of the soap shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 10 per cent.

Granulated laundry soap shall be a well-made, uniformly mixed soap in granulated or powdered form, made

from soda, rosin, and fats, and shall be of a uniform color.

The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on objects after washing with a water solution and rinsing with hot water.

**Soap, Laundry, Bar
P-S-591e**

This specification covers one type laundry bar soap, with or without rosin, for use in heavy-duty laundering, such as heavily-soiled occupational clothing, where normal wash temperatures are involved.

The soap shall be well-made, uniformly mixed laundry or common soap made from soda and fats, with or without rosin, and shall conform to the requirements shown in the table.

The percentage of moisture and volatile matter shall be computed, and reported by the testing laboratory, on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 36 percent.

The soap shall be in bar form. The finished bars shall be uniform in size, $4\frac{1}{2}$ by $2\frac{3}{4}$ by $2\frac{1}{4}$ inches plus or minus $\frac{1}{4}$ inch in each dimension. The average bar weight of 10 cartons or 600 bars shall fall within a maximum and minimum tolerance of 3 percent of 16 ounce bar when calculated to a 34 percent moisture and volatile content.

A freshly cut surface of soap shall have a uniform color (a slight variation in color occurring within $\frac{1}{4}$ inch of any edge shall be disregarded).

COMPOSITION (P-S-581b)

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 105°C.....	....	15.0
Sum of free alkali or free acid, total matter insoluble in alcohol, and sodium chloride.....	....	12.0
Free alkali, calculated as sodium hydroxide (NaOH) ....	....	.5
Free acid, calculated as oleic acid.....	....	.5
Matter insoluble in water.....	....	1.0
Chloride, calculated as sodium chloride (NaCl).....	....	1.0
Rosin.....	....	20.0
Anhydrous soap.....	72.0	....
Titer of the mixed fatty acids prepared from the soap	29°C.	....

COMPOSITION (P-S-583b)

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 105°C.....	10.0
Sum of free alkali or free acid, total matter insoluble in alcohol, and sodium chloride.....	14.0
Free alkali, calculated as sodium hydroxide (NaOH)5
Free acid, calculated as oleic acid.....5
Matter insoluble in water.....	1.0
Chloride, calculated as sodium chloride (NaCl).....	1.0
Rosin.....	20.0
Anhydrous soap.....	75.0	....
Residue retained on a No. 12 sieve.....	2.0
Titer of the mixed fatty acids prepared from the soap	29°C.	....

REQUIREMENTS (P-S-591e)

	Minimum	Maximum
Moisture and matter volatile at 105°C. ....percent	....	36.0
Sum of free alkali or free acid, total matter insoluble in alcohol, and sodium chloride ....percent	2.0	11.0
Free alkali, calculated as sodium hydroxide (NaOH) ....percent	....	0.2
Free acid calculated as oleic acid ....percent	....	0.5
Matter insoluble in water ....percent	....	1.0
Chloride, calculated as sodium chloride (NaCl) ....percent	....	1.0
Rosin ....percent	....	25.0
Anhydrous soap ....percent	52.0	....
Titer of mixed fatty acids prepared from the soap.....	29°C.	....

COMPOSITION (P-S-596c)

	Minimum Per Cent	Maximum Per Cent
Moisture and matter volatile at 150°C. ....	....	6.0
Sum of free alkali, total matter insoluble in alcohol, and sodium chloride ....	....	6.0
Free alkali, calculated as sodium hydroxide (NaOH) ...	....	0.2
Matter insoluble in water ....	....	1.0
Anhydrous soap	89.0	....
Residue retained on a No. 12 sieve ....	....	1.5
Rosin ....	....	None
Titer of the mixed fatty acids prepared from the soap....	39°C.	....

When specified, the color of a freshly cut bar shall be not darker than Color No. 30266 Federal Standard No. 595.

P-S-596c

This specification covers a white or light amber powdered laundry soap suitable for use in high temperature laundering of soiled cotton fabrics, and for general cleaning of soiled cotton fabrics, and for general cleaning with soft water. It shall be of but one type.

The composition shall conform to the requirements in the accompanying table.

The percentage of moisture and volatile matter shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 6 per cent.

Powdered laundry soap shall be a soap in powdered form made from soda and fats, without rosin, and shall be of a white or light amber color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water.

Soap: Laundry, Low-Titer (for Low-Temperature Washing)

This specification covers a neutral soap primarily for use in cleaning woolen and other fabrics, finished surfaces, leather and other articles where comparatively low-temperature washing solutions are required.

Soap covered by this specification shall be of one type and the following

forms, as specified: Form 1.—Chip or flake; Form 2.—Granular or powdered.

Low-titer soap shall conform to the chemical requirements shown in accompanying table.

The finished product shall be as resistant as possible to development of rancidity and heating during storage. The product shall have no objectionable odor for a minimum of 15 days.

The soap shall have a uniform light color.

The odor shall not be objectionable in the soap as received or in solu-

Chemical Requirements (P-S-600b)

	Minimum	Maximum
Matter volatile at 105° ± 2°C., percent ¹ .....	.....	7.0
Sum of free alkali or free acid, total matter insoluble in alcohol and sodium chloride, percent .....	.....	8.0
Water soluble sodium silicate, percent	2.0	4.0
Free alkali, calculated as sodium hydroxide (NaOH), percent .....	.....	0.2
Free acid, calculated as oleic acid, percent .....	.....	None
Matter insoluble in water, percent .....	.....	1.5
Rosin .....	.....	None
Sugar .....	.....	None
Copper—parts per million ² .....	.....	210.0
Unsaponified saponifiable matter, percent .....	.....	1.0
Anhydrous soap, percent	86.0	.....
Titer of the mixed fatty acids prepared from the soap °C. ....	.....	18
Iodine number (Wijs) of the mixed fatty acids prepared from the soap	80.0	95.0
Organic oxidation inhibitor, percent ³	0.05	.....

¹The percentage of matter volatile at 105° C. shall be determined and reported by the testing laboratory on the soap as received. The percentage of all other constituents shall be calculated and reported on the basis of material containing 7 percent of matter volatile at 105°C.

²The soap sample when tested in accordance with specifications shall not give a color darker than that obtained with the standard solution containing 10 p.p.m. of copper.

³Acceptable inhibitors of the following types shall be used unless otherwise specified: diphenylamine; orthodiphenyl biguanidine; para-tertiary amyl phenol; para-tertiary butyl phenol.

tion of the soap in water at 125° F. to 130° F.

Form 1 soap shall be chips or flakes.

Form 2 shall be granular or powdered. Not more than 1.5 percent shall be retained on a No. 12 (1680 micron) sieve.

Soap: Medium Titer (P-S-602)

This specification covers soap intended primarily for use in cleaning wool fabrics, other fabrics, finished surfaces, leather, and other articles, where comparatively moderate-temperature washing solutions are indicated.

Soap covered by this specification shall be of one type and the following forms: Form 1.—Chip; Form 2.—Granular or powdered.

The composition of the soap shall conform to the requirements shown in the table.

The percentage of moisture and volatile matter shall be computed, and reported on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 7 per cent.

The soap shall be of a white or light amber color. When specified, the color of the soap furnished shall conform to that of the accepted bid sample.

The odor shall not be objectionable in the soap as received or in a solution of the soap in water at 120°F. The soap shall not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water. When specified, the odor of the soap, under the above conditions, shall conform to that of the accepted bid sample.

**Soaps, Potash- Linseed Oil
(Liquid and Paste, Floor
and General Cleaning)
P-S-603b**

This specification covers liquid- and paste-type linseed oil soaps suitable for use in washing floors and linoleum. It shall be of the following types:

Type I.—Liquid.

Type II.—Paste.

Type I, liquid soap, shall be a uniform liquid soap made solely from whole neutral raw linseed oil and potash.

Type II, paste soap, shall be a uniform translucent, firm gel or paste made solely from whole neutral raw linseed oil and potash.

The composition of the soap shall conform to the requirements shown in the accompanying table. Percentages are by weight.

The percentage of moisture shall be computed and reported. The percentages of all other constituents shall be calculated and reported on an assumed moisture content of 50 per cent (type II only).

Type I, liquid soap, shall be soluble in soft water and when diluted with water shall act as a cleaner. The flash point shall be above its boiling point. It shall not contain any solvents or oils that will damage floor surfaces. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The material shall not leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

Type II shall be a uniform translucent firm gel or paste soap of a yellowish-white to greenish-brown color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The soap shall not leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

Type II shall dissolve readily to give a 0.15- to 0.2-per cent solution, using distilled water at 15.5° to 20°C. (60° to 68°F.). The solution so prepared shall yield at least 150 milliliters of suds.

A solution of type II in soft water shall act as a cleaner and shall not damage floor surfaces.

The material of each type shall not become rancid or otherwise deteriorate when kept in a closed container.

**Soap-Powder
P-S-606a**

Soap-powder shall be of but one type. It shall be a uniform mixture of soap and sodium carbonate, and/or other alkaline salts, in powdered form. It shall be readily soluble in tepid water, shall contain no free caustic alkali or inert fillers, and free from objectionable odor.

Anhydrous soap shall be not less than 15.0 per cent; alkaline salts, calculated as sodium carbonate (Na_2CO_3), shall be not less than 30.0 per cent; the sum of anhydrous soap and alkaline salts, calculated as sodium carbonate (Na_2CO_3), shall be not less than 55.0%.

**Soap, Toilet (Floating White)
P-S-616d**

This specification covers white floating cake soap suitable for use in

personal bathing and general cleaning with soft water.

White floating toilet soap shall be of the following types: Type I.—Framed

COMPOSITION (P-S-00602)

	Minimum	Maximum
Moisture and matter volatile at 105°C. ....percent	....	7.0
Sum of free alkali or free acid, total matter insoluble in alcohol, and sodium chloride	do	6.0
Sodium silicate	do 0.25	2.0
Free alkali, calculated as sodium hydroxide (NaOH) percent	....	0.2
Free acid, calculated as oleic acid	do	0.2
Matter insoluble in water	do	1.5
Rosin .....	....	none
Sugar .....	....	none
Copper, parts per million .....	....	10.0
Anhydrous soap	88.0 percent	....
Titer of mixed fatty acids prepared from the soap..	18°C.	33°C.
Iodine number (Wijs) of the mixed fatty acids prepared from the soap	75.0	135.0
Residue retained on a No. 12 sieve (Form 2 only) ...percent	....	1.5
Organic oxidation inhibitor	do 0.05	....

COMPOSITION (P-S-603b)

	Type I		Type II	
	Minimum Per Cent	Maximum Per Cent	Minimum Per Cent	Maximum Per Cent
Moisture (toluene distillation method) ....	....	....	....	55
Total matter insoluble in alcohol .....	....	0.5	....	1.0
Free alkali, calculated as potassium hydroxide (KOH) .....	....	.05	....	.1
Free acid, calculate as oleic acid .....	....	.1	....	.2
Alkaline salts, calculated as potassium carbonate (K_2CO_3) .....	....	.1	....	.2
Matter insoluble in distilled water .....	....	.1	....	.2
Chloride, calculated as potassium chloride (KCl) .....	....	.3	....	.5
Unsaponified and unsaponifiable matter ....	....	.4	....	1.0
Anhydrous soap, calculated as potash soap	20	....	43	....
Total sodium compounds, calculated as Na_2O} .....	....	.2	....	.5
Glycerol	1.8	....	4	....
Rosin .....	....	None	....	None
Sugar .....	....	None	....	None
Iodine number (Wijs) of mixed fatty acids derived from the soap.....	175	....	175	....
Acid number of mixed fatty acids derived from the soap	190	205	190	205

**CHEMICAL REQUIREMENTS OF WHITE FLOATING
TOILET SOAP (P-S-616d)**

	Type I		Type II	
	Min.	Max.	Min.	Max.
Moisture and matter volatile at 105° C...percent	34.0	....	24.0
Sum of free alkali, total matter insoluble in alcohol and sodium chloride	2.0	....	2.5
Free alkali, calculated as sodium hydroxide (NaOH)	0.1	....	0.1
Chloride, calculated as sodium chloride (NaCl)	1.0	....	1.2
Matter insoluble in water	0.6	....	0.6
Anhydrous soap	62.0	....	73.5	....
Unsaponified saponifiable matter (free fat)	0.3	....	0.3
Rosin (qualitative test)	None	....	None
Sugar	None	....	None
Acid number of the mixed fatty acids prepared from the soap	212	....	212	....

COMPOSITION (P-S-621e)

	Maximum Per Cent	Maximum Per Cent
Moisture and matter volatile at 105°C. ....	....	15.0
Sum of free alkali, total matter insoluble in alcohol, and sodium chloride .....	....	3.0
Free alkali, calculated as sodium hydroxide (NaOH) .....	....	0.1
Matter insoluble in water .....	....	1.0
Unsaponified saponifiable matter (free fat) .....	....	0.3
Anhydrous soap	83.0	....
Rosin, sugar, and foreign matter	None	....

white floating toilet soap having a moisture and volatile matter content not in excess of 34.0 per cent. Type II.—White floating toilet soap having a moisture and volatile matter content not in excess of 24.0 percent and so processed as to be free from warping and distortion upon aging.

White floating toilet soap shall be a cake soap mild and pleasant in odor, thoroughly saponified, and so prepared as to float on water. The soap shall be pressed to show the manufacturer's name or insignia. The color of a freshly cut surface of the soap shall be not darker than Color No. 37855 in Federal Standard No. 595. The original color shall be retained for a minimum period of six months from date of receipt of soap.

The material shall conform to the chemical requirements shown in the table.

The percentage of moisture and volatile matter shall be computed and reported by the testing laboratory on the soap as received. For type I soap, all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 34 percent. For type II soap, all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 24 percent.

The finished soap shall weigh 6 oz. (bath size), 3 oz. (regular size) and individual sizes of 2 oz., 1 oz., $\frac{3}{4}$ oz. and $\frac{1}{2}$ oz. per bar plus or minus 3 percent as received based on an average weight determined by weighing a filled container as specified in the contract or order.

Soap, Toilet (Cake, Milled) P-S-621e

This specification covers a milled cake soap suitable for use in personal bathing. Milled toilet soap shall be of one type.

The soap shall be thoroughly saponified and its composition shall conform to the requirements shown in table.

The percentage of moisture and volatile matter shall be computed, and reported by the testing laboratory, on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 15 percent.

Milled toilet soap shall be a high-grade, milled, cake soap, either colored or uncolored, well compressed in firm, smooth cakes. It shall lather freely when used with cold soft water.

Unless otherwise specified, the soap shall be mildly perfumed.

The finished soap shall weigh 5 ounces (bath size), 3 ounces (regular size), 2, $1\frac{3}{4}$, $1\frac{1}{2}$, 1, $\frac{3}{4}$ or $\frac{1}{2}$ ounces (individual sizes) per bar, plus or minus 3 percent, as received.

Soap, Toilet, Liquid and Paste P-S-624b

This specification covers liquid toilet soap and paste (for making liquid toilet soap) for use in dispensers.

Toilet soap shall be of one grade and of the following types: Type I.—Liquid; Type II.—Paste.

The material shall be a clear solu-

tion of potash soap in water. The soap shall be produced by the saponification of either vegetable oils or distilled vegetable-oil fatty acids with potash.

The material shall be a firm gel or paste of potash soap in water. The soap shall be produced by the saponification of either vegetable oils or distilled vegetable-oil fatty acids with potash.

The composition of the soap shall conform to the requirements shown in the table. Percentages are by weight.

Type II, paste soap.—The percentage of moisture and of anhydrous soap shall be computed and reported on the basis of the sample as received. The percentages of all other constituents shall be computed and reported on the basis of an assumed moisture content of 40 percent.

The soap shall be mildly perfumed and the odor shall not be objectionable as received, or in hot water.

Soap, Toilet (Powdered, Dispensers) P-S-626e

The powdered soap covered by this specification is suitable for use in washrooms, for skin cleansing. The soap shall be of but one type.

Powdered toilet soap for use in dispensers shall be thoroughly saponified soap in powdered form, made from soda and fats, shall be a uniform, free-flowing, non-caking powder, and shall lather freely when used with cold, soft water at room temperature.

The composition of powdered toilet soap shall comply with requirements specified in the accompanying table.

The percentage of matter volatile at 105° ± 2° C. will be computed on the basis of the soap as received, but all other constituents will be calculated on the basis of material containing 6 percent of matter volatile at 105° ± 2° C.

The powdered toilet soap shall comply with the following fineness requirements: Retained on a No. 12 U. S. standard sieve, maximum 1.5%; on a No. 45 sieve, 50% minimum; on a No. 100 sieve, 90% minimum.

Unless otherwise specified, powdered toilet soap shall be mildly perfumed and uncolored.

COMPOSITION: P-S-624b

	Type I		Type II	
	Minimum	Maximum	Minimum	Maximum
Moisture (toluene distillation method) .....	..	..	..	40
Anhydrous soap (calculated as potash soap)	15	..	60	..
Free alkali (calculated as potassium hydroxide, KOH) .....	..	0.05	..	0.2
Free acid (calculated as oleic acid) .....	..	0.1	..	0.2
Alkaline salts (calculated as potassium carbonate, K ₂ CO ₃) .....	..	0.2	..	0.3
Matter insoluble in distilled water .....	..	0.1	..	0.2
Matter insoluble in alcohol .....	..	0.5	..	1.0
Chloride (calculated as potassium chloride, KCl) .....	..	0.3	..	0.5
Sodium compounds (calculated as sodium oxide, Na ₂ O) .....	..	0.5	..	1.0
Sulfates .....	..	Trace	..	Trace
Rosin .....	..	None	..	None
Sugar .....	..	None	..	None
Iodine number (Wijs) of mixed fatty acids derived from the soap	7	80	7	80
Titer of mixed fatty acids derived from the soap, °C.	15	28	15	28
Acid number of mixed fatty acids derived from the soap	215	270	215	270

Composition (P-S-626e)

Characteristics	Minimum	Maximum
	Percent	Percent
Moisture and matter volatile at 105°C. ....	.....	6.0
Sum of free alkali, total matter insoluble in alcohol, and sodium chloride .....	.....	2.0
Free alkali, calculated as sodium hydroxide (NaOH) .....	.....	0.1
Free acid calculated as oleic acid .....	.....	0.2
Matter insoluble in water .....	.....	0.2
Anhydrous soda soap	91.0	....
Rosin, sugar, and foreign matter	None	
Iodine number (Wijs) of the mixed fatty acids prepared from the soap .....	.....	60
Acid number of mixed fatty acids derived from the soap	212	....
Organic oxidation inhibitor ¹ , percent	0.02	....

¹Acceptable inhibitors of the following types shall be used unless otherwise specified: diphenylamine; orthodiphenyl biguanidine; paratertiary amyl phenol; paratertiary butyl phenol.

COMPOSITION (628a)

	Type I		Type II	
	Minimum Per Cent	Maximum Per Cent	Minimum Per Cent	Maximum Per Cent
Anhydrous soda soap	23.0	27.0	35.0	39.0
Borax calculated as $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$..	72.0	77.0	57.0	63.0
Lanolin .....	....	0.0	2.5	3.5
pH value	9.0	10.2	8.5	9.5
Matter insoluble in water .....	....	0.2	....	0.3

The product shall dispense freely and present no caking tendency. Three fluid ounces of the soap shall be withdrawn from the dispenser in not less than 200 nor more than 650 strokes of the feed valve.

Soap-Borax Powder For Dispensers P-S-628a

This specification covers soap-borax powder mixtures suitable for use in dispensers and of the following types:

Type I.—Without lanolin.

Type II.—With lanolin.

Soap-borax powder for use in dispensers shall be a uniform mixture of a thoroughly saponified soap and borax ($\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$), free from grit and harsh abrasives, and shall be uniform, free-flowing, and noncaking.

The composition of soap-borax powder shall comply with the require-

ments specified in the accompanying table.

Compute the percentages of the constituents on the basis of the material as received, calculating the borax as the decahydrate— $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$. Borax ($\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$) effloresces in warm, dry air. If this has occurred, the sum of the percentages from the computation on the "as-received" basis will exceed 100. If the results are greater than 100 per cent, calculate the percentages of anhydrous soap and of borax ($\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$) by the following formula:

$$\% \text{ on } 100\% \text{ basis} = \frac{A \times 100}{S}$$

where:

A=percentage found

S=sum of the percentages on the "as-received" basis

The soap-borax powder shall produce not less than 100 milliliters foam.

The soap-borax powder shall com-

ply with the following fineness requirements: Type I, maximum retained on No. 12 U. S. standard sieve, 0.00 per cent; minimum on No. 45 sieve, 5 per cent; minimum on No. 100 sieve, 45 per cent. Type II, maximum retained on No. 30 U. S. standard sieve, 0.10 per cent; minimum retained on No. 45 sieve, 5 per cent; minimum retained on No. 100 sieve, 20 per cent.

The soap-borax powder shall be uncolored or tinted. Rosin, sugar, and other foreign matter shall not be present. Unless otherwise specified, it shall be mildly perfumed.

Sour, Laundry, Fluoride Type P-S-683

This specification covers a fluoride type laundry sour used in washing formulas to neutralize the alkali remaining in the load, and to remove rust stains and prevent discoloration. The sour is applied by dusting on the revolving cylinders of washing machines.

The laundry sour shall be a free flowing homogenous mixture of sodium silico-fluoride and sodium acid fluoride, and shall be furnished in either powder or crystalline form. There shall be no indication of "caking" in the container when received.

The laundry sour shall contain not less than 95 per cent by weight, of a mixture of sodium silico-fluoride and sodium acid fluoride, neither of which shall be less than 44.0 per cent of the total composition. The laundry sour shall not contain wetting agents or impurities or adulterants which may be injurious to fabrics or laundry equipment.

The oxalic acid content of the laundry sour shall not exceed 0.04 per cent.

The insoluble matter shall not exceed 3 per cent by weight.

Not less than 2 per cent, by weight, of the laundry sour shall pass through a No. 80 sieve.

Sweeping Compound P-S-863a

This specification covers three types of sweeping compound. Type I is suitable for use on wood, steel, and other floorings

PHYSICAL AND CHEMICAL REQUIREMENTS (P-S-863a)

	Type I		Type II		Type III	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
Volatile matter at 105°C., weight per cent.	—	12	—	12	—	12
Flammable vapors	—	None	—	None	—	None
Extractable oil, weight per cent	25	35	—	—	—	—
Acid number	—	17	—	—	—	—
Saponification number	—	20	—	—	—	—
Sand or substitute, weight per cent	30	40	50	60	—	—
Retained on No. 20 sieve, weight per cent based on sand content	—	1.0	—	1.0	—	—
Sawdust, weight per cent	18	—	15	—	45	60
Retained on No. 12 sieve, weight per cent based on sawdust content	—	1.0	—	1.0	—	1.0
Passing through No. 40 sieve, weight per cent based on sawdust content	—	15.0	—	15.0	—	15.0
Waxes and emulsifiers, weight per cent	—	—	20	30	40	55
Ash Content, weight per cent	—	—	—	—	—	3.0
Salt (sodium chloride), weight per cent	—	0.2	—	0.2	—	0.2
Odor	Not objectionable.		Not objectionable.		Not objectionable.	
Staining	—		Negative		Negative	

which are not varnished, sealed, painted or waxed and which are not affected by sand or mineral oil in the product. Type II is suitable for floors at locations where oil is undesirable; for example, garages, platforms, machine shops, and warehouses.—Caution: Not recommended for use on waxed wooden floors, composition and resilient floors in hospitals and office spaces. Type II is non-spotting and non-staining. Type III contains neither sand nor oil. It is suitable for use on composition and resilient floors at locations

where sand and oil are undesirable. Type III is also nonspotting and nonstaining.

Sweeping compound shall be furnished in the commercial grade and in the following types: Type I.—sawdust-sand-mineral oil; Type II.—sawdust-sand-water wax emulsion; and Type III.—sawdust-wax base.

Sweeping compound shall conform to the physical and chemical requirements in the table.

The sand shall be free of clays and animal organic matter.

When specified, feldspar or moulders sand may be used.

The sawdust shall be clean and free of objectionable odor.

When specified, sisal fibre cuttings or ground excelsior may be substituted entirely or partially for the sawdust. The ground excelsior shall meet the following sieve test: Weight retained on No. 8 sieve, maximum = 10 per cent.

Oils and waxes shall be free of objectionable odors.

The product shall be furnished in the natural color or artificially colored in light shades. If artificially colored, the coloring agents shall not stain flooring.

Composition (PS-560)

	Type I		Type II	
	Class 1		Class 2	
	Percent by weight		Percent by weight	
	Minimum	Maximum	Minimum	Maximum
Moisture (toluene distillation method) ¹	55.0	60.0
Total matter insoluble in alcohol	0.5	1.0	....
Free alkali, calculated as potassium hydroxide (KOH)	0.05	0.1	0.1
Free acid, calculated as oleic acid	0.1	0.2	0.2
Alkaline salts, calculated as potassium carbonate, (K ₂ CO ₃)	0.1	0.2	0.2
Matter insoluble in distilled water	0.1	0.2	0.2
Chloride, calculated as potassium chloride, (KCl)	0.3	0.5	0.5
Unsaponified and unsaponifiable matter	0.8	1.8	1.8
Anhydrous soap, calculated as potash soap ..	20.0	....	43.0	....
Total sodium compounds, calculated as sodium oxide	0.2	0.5	0.5
Glycerol	1.8	4.0	3.0
Rosin Acids, percent	1.0	2.0	2.0
Sugar	none	none	none

Numerical values

Iodine number (W I J S) of mixed fatty acids derived from the soap	80	150	80	150	....	....
Acid number of mixed fatty acids derived from the soap ..	190	205	190	205	190	205

¹Computation (type II only).—The percentage of moisture shall be computed and reported by the testing laboratory on the soap as received. To make calculations multiply the percentages of constituents other than moisture and volatile matter by factor (F) derived as follows:

$$F = \frac{100 - 5}{100 - \text{Percent moisture and volatile matter}}$$

The percentages of all other constituents shall be calculated and reported on an assumed moisture content of 50 percent.

Polish; Automobile, Liquid P-P-546

Polish, automobile, liquid, shall be furnished in one type and one grade.

The liquid automobile polish shall be suitable for use on lacquer, baked enamel, and synthetic enamel finishes and shall have no objectionable odor.

It shall be a stable aqueous emulsion containing a suitable abrasive in suspension. The polish shall be a free flowing fluid that can readily be applied with a cotton cloth and shall spread easily.

It shall meet the following requirements: nonvolatile matter (total solids) shall be not less than 25 per cent, by weight.

Ash content (based on nonvolatile matter) shall be not less than 35 per cent nor more than 50 per cent, by weight. Free caustic alkali—none; the neutralization number of the polish shall be not more than 5; all of the material shall pass through a No. 200 sieve, and not less than 95 per cent (based on ash content) shall pass through a No. 325 sieve; the volatile matter shall be essentially water.

Soap, Automobile and Floor, Liquid and Paste P-S-560

This specification covers liquid and paste type soaps suitable for use in general cleaning, automobile, floor, etc., tire tube lubrication, and oxygen system leak testing.

It shall be of the following types and classes: Type I.—Liquid; for general cleaning and in undiluted form for detecting gas leaks (as in oxygen systems). Type II.—Paste. Class 1. for general cleaning. Class 2. for use as tire tube lubricant

Type I soap shall be a uniform liquid made solely from potash and either whole neutral vegetable oils, distilled vegetable-oil fatty acids or distilled vegetable-oil fatty acids and rosin acids.

Type II soap shall be a firm, uniform translucent gel or paste made solely from potash and either whole neutral vegetable oils, distilled vegetable-oil fatty acids or distilled vegetable-oil fatty acids and rosin acids.

Composition of the soaps shall conform to the requirements shown in the table.

The soaps shall be readily and completely dissolved in distilled water at 15.5° to 20° C. (60° to 68° F.) to give a 0.15 to 0.12 percent solution. This

solution shall yield at least 150 ml. of suds.

The soaps shall have flash points above their boiling points.

The soaps shall not become rancid or separate or otherwise deteriorate.

Type I soap, as received, and 20 percent water solutions of type II soaps shall be not darker than number 17 of the Gardner Color Scale.

Cleaning Compound, Synthetic Detergent, Non-Abrasive, All Purpose P-C-431a

This specification covers general maintenance commercial cleaning compounds containing synthetic detergents.

The compound covered by this specification shall be of one grade only, and of the following types:

Type I.—Powder or flake.

Type II.—Liquid.

Type III.—Paste.

The compound shall be a uniform homogenous product, free from any objectionable odor, and shall contain synthetic organic detergents. It shall contain no abrasives or fatty acid soaps and shall not be irritating to the skin. It shall be satisfactory for floor and wall maintenance with soft or hard water.

The pH value of a 1.0 percent (by weight) distilled water solution of the compound shall be not less than 5.5 nor more than 9.5.

The compound shall be completely soluble in distilled water.

The compound shall be free-rinsing.

Types I and III.—A solution of 5 grams of compound in a liter of synthetic hard water shall exhibit a cleaning efficiency of not less than 80 per cent.

Type II.—A solution of two per cent by volume (2 volumes of compound to 98 volumes of synthetic hard water) shall exhibit a cleaning efficiency of not less than 80 per cent.

A 0.2 per cent (by weight) solution of the compound shall not cause greater than one-half of the loss of 60 degree specular gloss of painted surfaces caused by a 0.2 per cent solution of trisodium phosphate.

Cleaning Compound, Alkali Type P-C-436a

This specification covers one class of alkaline cleaning compound suitable for use in the hot soak tank cleaning of ferrous and nonferrous alloy parts.

The raw materials used in manufacture of these compounds shall be of high quality, intimately assembled and processed so as to produce a granular product which will remain uniform in composition and show no evidence of segregation or caking during handling or storage. The compound when used as a hot soak cleaner at boiling temperature and a concentration of 7.5 per cent (7.5 grams of compound in 100 ml. of solution) shall effectively remove asphalt, mineral oil, grease and road dirt from metal parts. Nonferrous metals shall not be attacked under these conditions.

The cleaning compound is not required to conform to definite chemical

composition requirements. The manufacturer is given wide latitude in the selection of raw material and processes of manufacture, provided that the product meets all applicable requirements of this specification. The compound shall not contain any toxic or volatile substances, such as chlorinated hydrocarbons, phenolic compounds, benzene, or the like.

The cleaning compound, alkali-type, shall be equal or superior in effectiveness to the comparison formula in all respects when tested. The compound covered by this specification shall be tested simultaneously with the comparison alkali-type cleaning compound.

The cleaning compound covered by this specification shall be equal or superior to the standard comparison cleaning compound prepared and tested under the same conditions, in ability to remove mineral oil and asphalt soils from metal surfaces.

The compound covered by this specification, when boiled for 40 hours, shall be equal or superior to the standard comparison formula, prepared and tested under the same conditions, in ability to remove soils from metal surfaces.

The cleaning compound, alkali-type, shall not attack aluminum. When tested in accordance with specifications, there shall be no loss in weight of aluminum test panels, nor any visible staining, discoloration, etching or pitting of the test specimens.

The pH value of a distilled water solution of the compound at a concentration of 7.5 per cent (7.5 grams of compound in 100 ml. of solution) shall be not more than 12.1 when tested at 25°C.

The dust forming properties shall be such that the dust shall settle within a period of five seconds.

The surface tension of a 0.05 per cent solution (0.05 grams of compound in 100 ml. of solution) of the compounds in distilled water at 25°C. shall be not more than 36 dynes per centimeter.

The average penetration shall be not less than 30.0.

The difference of the percentages of any ingredient of the compound (such as silicates, carbonates, or total phosphates) taken from different portions of a container shall not exceed 2 per cent of the average percentage of that ingredient in the compound.

The compound shall be manufactured in accordance with the best commercial practice to produce a high quality material which is stable and not subject to change during storage in a sealed container.

Polish; Metal P-P-556a

Metal polish shall be of the following types:

Type I.—Powder.

Type II.—Liquid.

Type III.—Paste.

Metal polish of each type shall be of but one grade.

All types of metal polish shall have—(a) Good tarnish removing properties. (b) Good luster-producing properties.

They shall give good protection of the polished surface against tarnishing influences, and shall be so constituted that, by reason of application and polishing, they shall not scratch metals; shall not leave the metal discolored or caked with abrasive material; shall not be detrimental in any manner to metals; shall not show any unnecessary caking of type I or III polish in the containers. The abrasive material in liquid (type II) polish, shall show no caking in the container, which cannot be readily put into suspension by thoroughly shaking the containers.

The abrasive material shall be of such particle size that 100 per cent will pass through a No. 200 sieve.

Metal polish shall be free from acids, cyanide of potassium or other cyanides, grit, or other ingredients having detrimental effects on metals.

It shall clean quickly, leaving a bright polished surface, with a full luster for the material being polished.

The polished surface shall remain free from corrosion or discoloration for a period of at least 24 hours.

Polish, metal, furnished under this specification shall have good keeping qualities and be guaranteed for 1 year from the date of actual receipt at point of delivery specified in the contract or order.

The amount of volatile matter, at 105° to 107°C., in either type II or III polish, shall not exceed 70 per cent by weight, of the polish.

The flammability of the liquid contents of types II and III polishes shall be not less than 39°C.

Dishwashing Compound, Machine P-D-425a

Specification covers free-flowing, solid form dishwashing compounds suitable for use in spray-type mechanical dishwashing machines, of two types: Type I. — For hard water; Type II. — For soft water.

Type I shall be formulated from alkaline salts, sequestering agents, and wetting agents in proper proportion to provide a compound which will meet requirements of the specification. Dishwashing compound shall be free from objectionable odor in either dry form or in solution.

Foaming of the compound shall not interfere with the normal operations of a dishwashing machine. A solution of the compound shall have an initial pH of not less than 10.5 and not higher than 12.5. The addition of the equivalent of 10.0 milliliters (ml.) of 0.1 N hydrochloric acid shall not reduce the pH of the solution to less than 9.0.

Hard water shall be softened completely as indicated by the absence of turbidity. The weight of precipitate obtained shall not exceed 15 milligrams.

Aluminum test specimens shall not be discolored or etched, nor shall a dense white film be formed on the surfaces.

Slight dulling of the surfaces or formation of a faint white film on the test specimens shall not be interpreted as evidence of nonconformity.

Matter insoluble in distilled water shall not exceed 1 per cent by weight. The ingredients used shall not be contaminated with toxic amounts of poisonous compounds such as those of arsenic, lead, mercury, antimony, or any other materials having a deleterious effect. The dishwashing compound shall contain not more than 0.003 per cent heavy metals expressed as lead. Not more than 5 per cent of the compound shall be retained on a No. 10 standard sieve. The particle size of mechanical mixtures of ingredients shall be normally uniform in order to minimize segregation of the ingredients. Not less than 95.0 per cent shall fall within one of the ranges:

Range	Passing	Retained
A.....	No. 10 and No. 120	
B.....	No. 16 and No. 170	
C.....	No. 20 and No. 200	
D.....	No. 25 and No. 270	

Instructions for use: For water containing hardness (as calcium carbonate) of the range above 7 to 14 grains per gallon (above 120 to 240 p.p.m.), use 5 ounces of type I compound for each 10 gallons of wash water. For water containing hardness in the range above 14 to 20 grains per gallon (above 240 to 342 p.p.m.), use 7 ounces for each 10 gallons of wash water. To determine the amount needed, multiply the indicated dosage at the predetermined hardness by the number of gallons of wash tank capacity and divide by 10. If water hardness is $\frac{1}{2}$ grain per gallon or less, use type II compound.

Three and one-half ounces of type II compound should be added to each 10 gallons of wash water having a hardness (as calcium carbonate) of 7 grains per gallon (120 p.p.m.) or less. To determine the amount needed, multiply $3\frac{1}{2}$ ounces by the number of gallons of wash tank capacity and divide by 10. If water hardness is above 7 grains per gallon use type I compound. During operation of a dishwashing machine not equipped with an automatic dispenser or a detergent meter, the compound should be replenished by adding about one-fourth of the original amount every 10 minutes while tableware is being washed.

ESTIMATING DETERGENT FOAM

(From Page 252)

piece under the second and after exactly two minutes from zero time wash second test piece, rinse and drain as in steps (b), (c), (d) and (e). (g) Continue to wash as many test pieces as required to reach the end-points.

VIII. END-POINTS OF TEST:

Two end-points are observed and recorded. (a) **Suds end point.** This end point is reached when only a thin layer of suds is visible over approximately one-half the

area of the dishpan. Record the number of test pieces washed to reach this end point. (b) **Detergency end point.** Preliminary examination is made under ordinary light to determine approximately how many test pieces are needed to reach this end point. Wash several more plates beyond this expected end point. Final examination is made with an ultraviolet lamp in a special box made for this purpose. Grade washed test pieces as follows:

Rating	Appearance under Ultraviolet Light
0	No visible soil
1	Traces of soil (not detectable by ordinary light)
2	Satisfactory under ordinary light but definite spotting under ultraviolet light
3	Visible under ordinary light but heavy spotting under ultraviolet light
4	Heavy deposit under ordinary light. Usually film of fat present
5	Very bad

The detergency end point is recorded as the total number of plates washed with a grade of 2 or better. (i.e., number of plates which are passable under ordinary light.) Occasionally there may be a "skip," i.e., see the following illustration:

Plate No.	Rating
1	0
2	0
3	1
4	1
5	1
6	2
7	2
8	2
9	2
10	3
11	2
12	3
13	4

METHOD C

I. **SCOPE:** This method is designed to be used as a qualitative, rapid screening test to indicate the relative amounts of foam (or suds) produced by high foaming type liquid detergents for hand dishwashing. This laboratory test procedure does not involve actual dishwashing and the conditions of the test may be varied as desired.

II. **MATERIALS:** (a) Dishpan—conventional. A vessel similar to a dishpan may be substituted. (b) Pipette or burette.

III. **SOIL:** A liquid soil such as oleic acid. Other liquid oils or fats may be substituted.

IV. **WATER HARDNESS:** Any water hardness can be used depending upon the specific requirements desired by the laboratory. Satisfactory standard conditions should be established to permit relative correlation of results.

V. **TEST PROCEDURE:** Prepare 3 liters of 0.10% detergent solution ("as is" basis), in the dishpan or suitable vessel at 45° C. Generate the foam

by swirling the solution vigorously by hand 10 times clockwise and 10 times counterclockwise. Add the defoamer in 5 ml increments at one minute intervals. After each addition of defoamer, swirl the solution gently by hand 10 times in each direction. (This is much less vigorous than that used to generate the foam initially.) Important to the test is the swirling motion used between increments of defoamer. It should be very gentle. Excessive agitation, by hand or mechanical mixers, will promote emulsification of the defoamer and lead to variable results. For example, excessive manual agitation of a defoamed solution will result in reappearance of a substantial amount of foam.

VI. **END POINT:** The end point indicates the relative disappearance of foam for all practical purposes; but being subjective, will probably vary with the operator. When it is difficult to determine the end point, a range is reported rather than a single number. The number of increments of defoamer required to defoam the solution is recorded. All tests are run at least in duplicate.

AEROSOL TEST METHOD FOR FLYING INSECTS

(From Page 250)

dead flies are counted 24 \pm 1 hours later, preferably by removing them from the recovery cage. Only flies that show no sign of life upon being touched may be counted as dead. If the "down" flies were counted as they were collected, the sum of the "down" and the "up" flies yield the total flies in the test. If the "down" flies were not counted as collected, the recovered flies are killed by placing the cage in an oven at 170°F. for a few minutes, after which they are counted. The sum of recovered and dead flies yields the "down" flies and this sum added to the "up" flies yields the total flies used in the test. The *Aerosol Test Knockdown Mortality* is the per cent dead of total flies. In the *Aerosol Test Knockdown Mortality* calculation, the "up" flies at the end of the 15-minute exposure period are considered to be alive at the end of the 24-hour observation period. The *Aerosol Test Knockdowns* are the per cent "down" of total flies at 5, 10 and 15 minutes.

In the preceding paragraph, it is assumed that the "up" flies at 15 minutes are counted and discarded, and not captured and held for a 24-hour mortality observation. If these flies are captured, the *Aerosol Test Mortality* calculation can be made, and this includes the 24-hour dead of the "up" flies. In such a procedure, the captured flies must be held in a separate recovery cage under conditions specified for the "down" flies, and the 24-hour mortality count must be taken in a similar manner. It is also necessary that the OTA, run in conjunction with the so-treated experimental samples, receive identical treatment. In reporting results, the above terminology must be rigidly adhered to

in order to clearly designate whether the "up" flies were captured and held for observation or whether they were assumed to be alive at 24 hours.

The mortality and knockdown definitions are summarized in equation form as follows:

- (1) *Aerosol Test Knockdown Mortality* = $\frac{\text{Dead "Down" Flies} \times 100}{\text{Total Flies}}$
- (2) *Aerosol Test Mortality* = $\frac{(\text{Dead "Down" Flies}) + (\text{Dead "Up" Flies}) \times 100}{\text{Total Flies}}$
- (3) *Aerosol Test Knockdown, 5, 10 or 15 minutes* = $\frac{\text{"Down" Flies} \times 100}{\text{Total Flies}}$

IV. CONDITIONS FOR OFFICIAL EVALUATION

1. The tests shall be conducted in accordance with the procedure previously described.

2. At least two cultures of flies, meeting Peet-Grady specifications, shall be used in making an official evaluation.

3. Cages showing a combined mortality and crippling greater than eight per cent on the day of test shall not be used.

4. In the small group procedure, using approximately 100 flies per test, no more than three unknown samples may be tested in conjunction with one OTA in any one series. Ten tests are run on the OTA and on each of the unknowns in parallel; that is, test each spray the same number of times on any one day. The samples of a series must be randomized in the order of testing.

5. The large group procedure using approximately 500 flies per test shall be conducted in the same manner as outlined for the small group procedure with the exception that five, rather than ten, tests are required.

6. The *Aerosol Test Knockdown Mortality* and/or *Aerosol Test Mortality*, and *Aerosol Test Knockdown* (5, 10, and 15 minutes) of the unknown sample shall be reported as "meeting the standard" if its average mortality and knockdown is equal to or greater than that of the OTA run in conjunction with it. "Equal to" shall be interpreted as meaning that the results with the unknown do not differ by more than —5 percentage points from the results obtained with the OTA at 5, 10, and 15, minutes. If an unknown sample shows a mortality or knockdown less than the OTA but within the allowable 5 percentage point margin, the average dosage of the unknown must not exceed that of the OTA.

7. In no case shall numerical values be reported or any letter grade designations be assigned to the test samples as a measurement of the mortality or knockdown.

8. The *Official Test Aerosol* (OTA) is restricted to use in the above described procedure and shall be used only as a reference insecticide in house fly aerosol testing.

References

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- (9) Peet-Grady Method, 1948. Soap and Sanit. Chem. Blue Book: 183-186.
- (10) A report on Fleischmann's Active Dry Yeast for Bakers, Mimeo. Letter from D. F. Starr to CSMA Insecticide Committee members dated 1/7/53. Unpublished.

COCKROACH AEROSOL TEST METHOD

(From Page 246)

that if the test insects are to be held under observation longer than 48 hours, they be furnished food and water at the end of the initial 48-hour observation period. Insects that withstand insecticide treatments shall be destroyed and in no case returned to the stock cultures or employed in further tests.

The basis of comparison shall be the average percentage dead and moribund of the test sample as compared with that of the OTA. In reporting the test results the test sample shall be reported as "meeting the standard" if its average percentage dead and moribund determination at 48 hours is equal to, greater than, or within 10 percentage points less than that of the OTA employed in conjunction with it. In no

case shall actual numerical values be reported officially or any letter grade designation be assigned to the test samples as a measurement of their effectiveness against cockroaches. The accompanying table records the results of a typical series of tests.

IV. CONDITIONS FOR OFFICIAL EVALUATION

A. The test shall be conducted in accordance with the procedure previously described.

B. Twenty test groups of insects, numbering 20 cockroaches each (10 test sample, 10 OTA), shall be employed in making an official evaluation.

C. The average dosage shall be approximately constant throughout a given series of tests and of such magnitude as to give an average of from 50 to 75 per cent of the OTA treated cockroaches dead or moribund 48 hours after spray application.

D. The toxicity of the test sample shall be reported as meeting the standard if its average percentage dead and moribund determination at 48 hours is equal to, greater than, or within 10 percentage points less than that of the OTA run in conjunction with it. In no case shall numerical values be reported or any letter grade designations be assigned to the test samples as a measurement of their toxicity to cockroaches.

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- SAFETY
- LONG RESIDUAL ACTION
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DIAZINON 20S INSECTICIDE

Oil solution containing 1.5 lbs. of Diazinon per gallon. For formulation of 0.5% residual household sprays, including low pressure aerosols. Controls cockroaches and other household insects, including resistant strains. Effective, long residual action. Available in 5 and 30 gallon drums.

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Contains 90% technical methoxychlor for the preparation of household sprays and aerosols, livestock sprays, and other products requiring methoxychlor in the finished solution. Reliable, safe, economical, broad spectrum action. Available in 100 pound drums.

ORIGINATORS OF  DDT INSECTICIDES

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